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Annotated list of the moths of Süphan Volcano (Bitlis Province, East Turkey) (Lepidoptera)

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Abstract: Annotated list of the moths of Süphan Volcano (Bitlis Province, East Turkey) (Lepidoptera). *Priamus* 15 (2): 82-123, 72 figs.

In this paper, first annotated list of the moth species of Süphan Volcano (Bitlis Province, East Turkey) is given. Totally 172 species of 21 moth families are listed alphabetically for the first time. In the family *Gelechiidae*, early stage of *Teleiopsis latisacculus* is illustrated. The identity of the species is discussed. Images of male, female genitalia, abdominal skins, tympanal organs, and observational illustrations in nature of a significant number of species are given. Faunistically 2 species are new to Turkey. Similarly, 50 species are new to Bitlis Province.

Key words: Süphan Volcano, Adilcevaz, Bitlis Province, Turkey, Lepidoptera, fauna, morphology, early stage, *Arctiidae*, *Autostichidae*, *Carposinidae*, *Coleophoridae*, *Cosmopterigidae*, *Cossidae*, *Ethmiidae*, *Gelechiidae*, *Geometridae*, *Gracillariidae*, *Lasiocampidae*, *Lymantriidae*, *Noctuidae*, *Oecophoridae*, *Pterophoridae*, *Pyrallidae*, *Scythridae*, *Sphingidae*, *Tortricidae*, *Yponomeutidae*, *Zygaenidae*.

Within the frame of the private Project of the Cesa on the Lepidoptera of Turkey, the authors realized numerous field trips in the East Turkey, especially around the Van Lake Basin. Several selected mountains in the region were at the focus of the research. These were Gören Mount (65Nm), Artos Mountain (65Fz), Başet Mountain (65Gz) (in preparation), Mengene Mountain (65Bx) (in preparation) (Van Province), and Nemrut (13Gw) and Süphan Volcanoes (13Ax) (Bitlis Province). The first results of 406 species on the Pterygota fauna of Gören Mount for the vernal period April-June was published (Kemal & Koçak, 2014). Two years later, the fauna of Artos Mountain was published with an annotated list of 655 pterygot species of 93 families (Kemal & Koçak, 2016).

Süphan Volcano is currently inactive and located at the northern part of Van Lake in the Province Bitlis (**Fig.1**). The area was investigated in 2015 within the research Project about the diurnal Lepidoptera fauna of Süphan Volcano². In the present paper, the authors listed first results of the moths with faunistical and observational notes, recorded during the field studies mainly in the June and July of 2015. From late July on, the field studies couldnot be realized, as it has been badly effected by the terror attacks and operations in the region.

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² This paper is a part of the Project, numbered 2014-FEN-B165, entitled "On the diurnal Lepidoptera fauna of Süphan Mountain", supported by Yüzüncü Yıl University, Bilimsel Araştırma Projeleri Başkanlığı, Van, Turkey.

The moths of the volcano are mostly nocturnal; therefore the light trap is used³, for the purpose of collecting of the individuals. All the specimens were identified by the authors mostly at the specific level, and preserved in the Collection of the Cesa⁴.



Fig. 1 – Southern slopes of Süphan Volcano (13Ax), southern slopes, from Ağartı (Tuşba district, Van Province). 4 5 2014, M.Kemal (Cesa)



Fig. 2 – *Coleophora* sp. (Coleophoridae), nocturnal. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 16 7 2015. M. Kemal (Cesa)

³ <https://archive.org/details/ASimpleButEffectiveLightTrapForInsectsPaitByTheCesa>

⁴ <http://grbio.org/cool/eaaz-xyfc>

Annotated list of the moths recorded from Süphan Volcano

In the list below totally 172 species of the 21 moth families (*Arctiidae*, *Autostichidae*, *Carposinidae*, *Coleophoridae*, *Cosmopterigidae*, *Cossidae*, *Ethmiidae*, *Gelechiidae*, *Geometridae*, *Gracillariidae*, *Lasiocampidae*, *Lymantriidae*, *Noctuidae*, *Oecophoridae*, *Pterophoridae*, *Pyrilidae*, *Scythridae*, *Sphingidae*, *Tortricidae*, *Yponomeutidae*, *Zygaenidae*) are listed alphabetically. Chronologically arranged synonymous names, original references, and range information (as codes)⁵ are also added to each species. If otherwise mentioned, all the specimens are nocturnal, and collected by light trap.

In the list, the following male and female genitalia of some species, to be identified, are prepared and illustrated for their identifications: Figures of male genitalia of 13 species: 8, 12, 38, 43, 45, 51, 54, 59, 60, 61, 67, 69, 70, 72. Figures of the female genitalia of 6 species: 5, 21, 27, 36, 41, 65. Meanwhile abdominal skins of 7 species are prepared and illustrated: Figs. 6, 9, 38, 42, 44, 68, 71. Tympanal organs are also illustrated of two pyralid species: Figs. 52, 55. Early stage of a gelechiid moth is illustrated: Figs. 16-19. Observational illustrations of 26 species in the nature are as follows; figs. 2, 3, 10, 13, 14, 19, 22-25, 28-35, 46-49, 56, 57, 62, 63.

Arctiidae

1. *Arctia (Eucharia) festiva* (Hufnagel, 1766)

Synonym(s): *festiva* Hufnagel, 1766; *hebe* Linnaeus, 1767; *interrogationis* Ménétriés, 1863; *sartha* Staudinger, 1886; *nivea* O. Bang-Haas, 1927; *ragusai* Stauder, 1928. Original Reference: *Phalaena festiva* Hufnagel, 1766, Berl. Mag. 3: 416. Type(s): Deutschland: Berlin. Range (in code): PT ES FR Si IT BE NL LU DE AT PL CZ SK HU RO YU AL BG GR Rd TR SY Hal LB IR Ak Shf Zj Tbz Ar Kd Snj Km Ha Ma Ke Kh Fa Hz LV LT MD UA BY KK Ax RU Tv MN CN Ui IMn Hph GG Tbl Bjo Kir Smt Akh AZ Bak Cc AM KG Ssn Tk Ii UZ Fe Man IQ Shq 05 06 12 13 14 16 17 24 25 27 32 36 38 40 42 44 47 49 56 58 60 63 64 65 71 75 05A 06K 06Kc 06R 06Ra 12A 12Ab 12Af 13A 13Ab 13Ax 14E 16A 25F 25T 27B 27D 36F 38F 40C 42B 44A 44L 44Lc 47D 47Da 47F 49F 49Fb 56F 56Fb 56Fh 58G 60C 63E 64A 65A 65An 65Am 65Am1 65E 65Eb 65Ec 65K 65Ky 65Ky1 65Kz 65Kg 65N 65Np 65Nm 71C 75E

Adults common in the spring.

2. *Lacydes spectabilis* (Tauscher, 1806)

Synonym(s): *spectabilis* Tauscher, 1806; *intercissa* Freyer, 1842. Original Reference: *Noctua spectabilis* Tauscher, 1806, Mém. Soc. nat. Univ. imp. Moscou 1: 212 fig. Type(s): Russia. Range (in code): RU KG Ssn Uk T-S Sb TM AF Bd CN Ui Kml MN IR Th Dam Elb Mz Gls Kp Kh Fa Sse Ak Mz Gls Ma Se IQ TR Cc AM KK 03 06 13 23 24 25 26 30 38 42 46 50 51 56 58 65 68 70 71 73 03A 03Aa 06R 06Ra 06Y 13A 13Ab 13Ax 13C 13Cf 13G 13Gw 13Gü 23I 25A 25N 25Na 26K 30B 30Bg 30D 30Da 42B 46G 50G 51B 51Bc 56F 58G 58Gg 65A 65Ab 65B 65Bk 65D 65Da 65F 65Fe 65Fş 65K 65Ku 68B 70A 70Ac 71B 73C 73Cd 73Ce

Adults uncommon in the autumn.

3. *Phragmatobia fuliginosa* (Linnaeus, 1758)

Synonym(s): *fuliginosa* Linnaeus, 1758; *fervida* Staudinger, 1871 *nec* Walk., 1855; *lurida* Rothschild, 1910; *monticola* Daniel, 1970 *nec* Reiss., 1934 Original Reference: *Phalaena fuliginosa* Linnaeus, 1758, Syst. Nat. (Edn. 10): 509. Syntypes: [Europa]. Range (in code): AET DZ MA TN PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IR Elb Th Mz Kdj GG AZ Kir AM LB Bei JO IL Hf DK NO SE FI EE LV LT RU Sr MD UA BY AF Bark TJ KK KG Ssn CN Ui Ku Ts Kno Gn UZ Fe Ti CA Bd Hr Gbh Fz Srb Pli Dw Cc Smt Bjo Tbl Mng Da Der IQ SY Sc On Mai Wc BCo NCA Mnt Ssk Vc Yuk Ts B-B Ab Khy Oru Ak Aha Gh Mz Gls Kh Kd Bne Km Fa Pag Kön PK Gg Hu Psu Khh Dh Anna Lvv 01 05 06 07 12 13 14 16 19 22 24 26 30 31 32 33 34 35 36 42 44 46 50 52 53 55 56 61 65 71 76 05A 06D 06F 06K 06Kb 07C 07O 12A 12Aa 13A 13Ab 13Ax 14B 14Bb 16A 16E 19P 22A 26K 30A 30Ad 31K 31Ka 33F 33P 34P 34R 34Rb 34S 36D 44L 44Lb 46D 51B 51Ba 52H 53L 55D 55F 56A 56Aa 56F 56Fo 61L 65N 65Np 65Nm 73D 73Dd

Adults uncommon in the summer.

Autostichidae

4. *Apiletria purulentella* Stainton, 1867

Synonym(s): *purulentella* Stainton, 1867 Original Reference: *Apiletria purulentella* Stainton, 1867, Tineina Syria Asia Minor: 43-44. Lectotype ♂: Palestine: Plains of Jordan (BMNH). Range (in code): TR Cc AM Eri JO Amm IL Pa Hf LB Bsa Bei SY Dms IQ Shq Dia Ry Mos Bgd Kbl TM IR Elb Kdv Lo Kd Fa Shr 01 05 06 07 13 42 44 46 47 63 76 80 01K 05A 05E 06Y 07D 13A 13Ac 13Ax 13B 42B 44L 47D 76C 80B 80Ba 80Bb 80Bc

⁵ <http://www.members.tripod.com/entcesa/Code.pdf>

Adults common in the steppe in the summer.

Carposinidae

5. *Carposina scirrhosella* Herrich-Schäffer,[1854]

Synonym(s): *scirrhosella* Herrich-Schäffer,[1854]; *orientella* Stanoiu & Nemeş,1968 Original Reference: *Carposina scirrhosella* Herrich-Schäffer,[1854], Syst. Bearb. Schmett. Eur. 5: 142. Type: "Oesterreich". Range (in code): DE AT CZ SK HU YU RO BG TR LB 06 13 16 65 06R 13A 13Ab 13Ax 65N 65Nm

Uncommon.

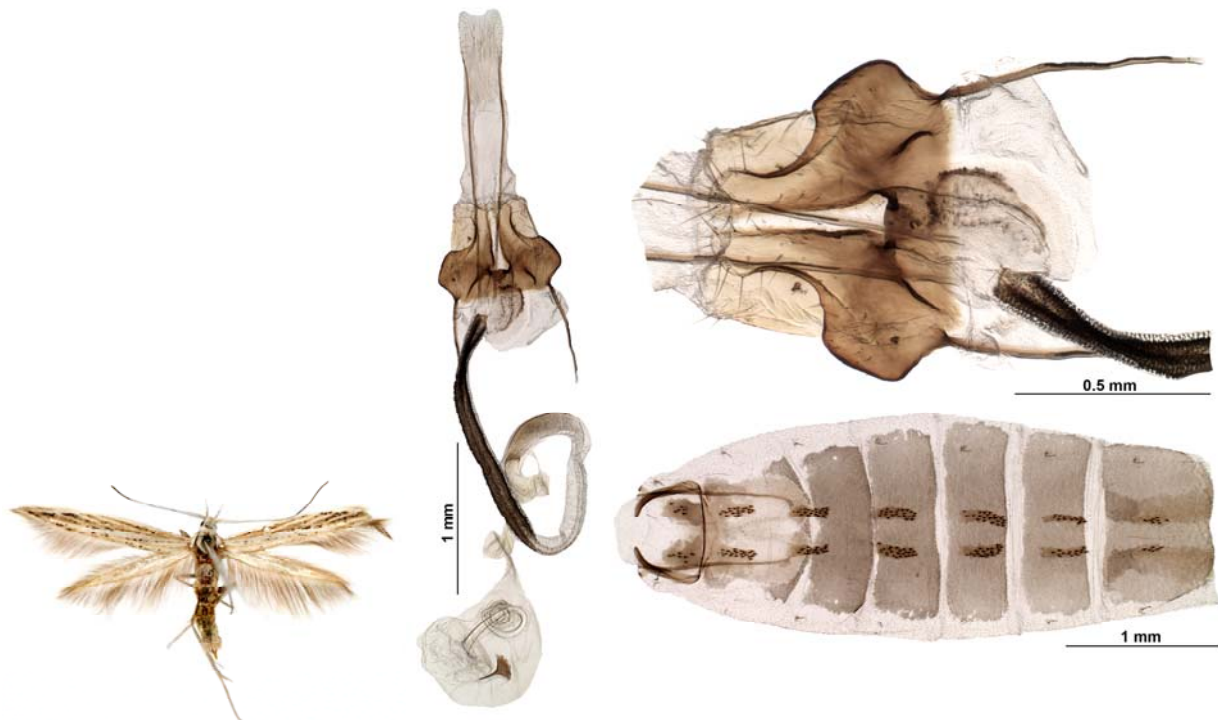
Coleophoridae

The members of this family are rich in this region. Only three species are illustrated here as examples. This family will be separately published, as the studying on the species takes a long time.

- 6. *Coleophora* sp. 1 (Fig.2)**
 - 7. *Coleophora* sp. 2 (Fig.3)**
 - 8. *Coleophora* sp. 3 (Figs.4-6)**
- GP2617♀.



Fig. 3 – *Coleophora* sp. 2. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m (13Ab) 16 7 2015. M.Kemal (Cesa)



Figs. 4-6 – *Coleophora* sp. 3. Upperside of female. GP2617 (left). Female genitalia and abdominal skin (right). Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

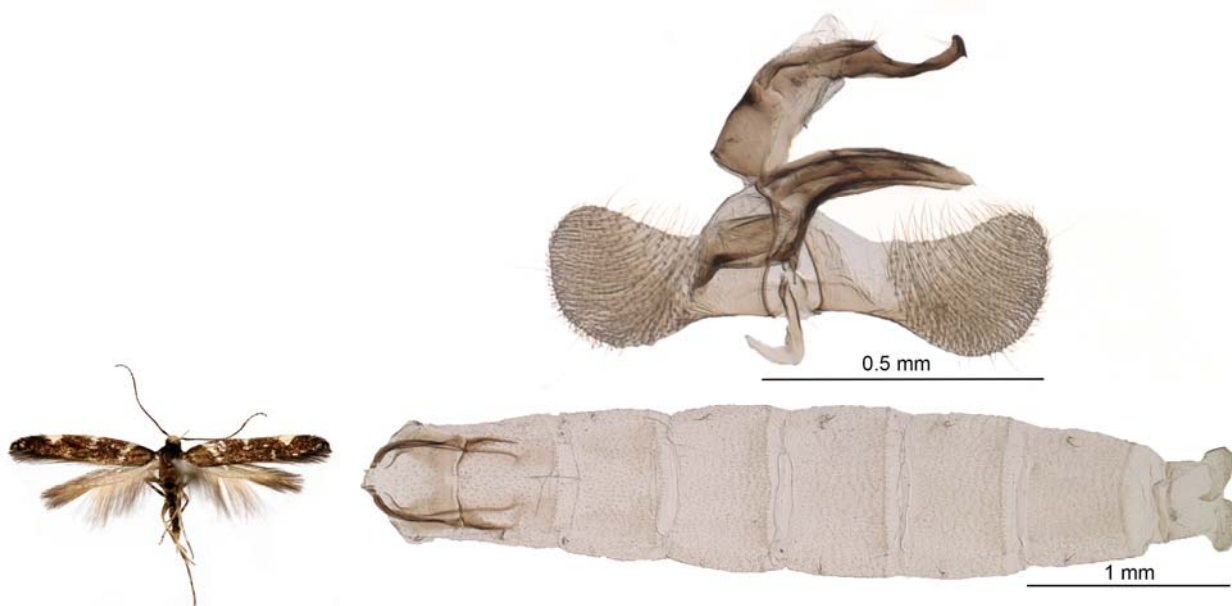
Cosmopterigidae

9. *Eteobalea anonymella* (Riedl, 1965) (Figs. 7-9)

Synonym(s): *anonymella* Riedl, 1965. Original Reference: *Stagmatophora anonymella* Riedl, 1965, Polskie pismo ent. 35 (2): 433. Range (in code): DZ ES FR IT DE AT PL CZ SK HU RO YU BG GR TR IR SE FI EE LV LT RU Sr MD UA BY o6 13 o6R 13A 13Ab 13Ax Prep. no: GP2640♂

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, M. Kemal & A. Koçak leg.

This nocturnal species is new to the fauna of Bitlis Province.



Figs. 7-9 – *Eteobalea anonymella*, upperside of male. GP2640 (left), lateral view of the male genitalia (above), abdominal skin of the same specimen (right). Bitlis Prov., Süphan Volcano. M. Kemal (Cesa)

Cossidae**10. *Cossulus argentatus* (Staudinger,1887)**

Synonym(s): *argentatus* Staudinger,1887; *araxes* De Freina,1982 Original Reference: *Cossulus argentatus* Staudinger,1887, Stettin ent. Ztg. 48: 91. Type ♂: [Türkei]: "Alexandropol (südwestl. Caucasus Gebiete, Armenien)". Range (in code): TR Cc AM AZ Nv Ord LB Bsa IR Elb Kdv 04 12 13 25 30 36 42 46 49 51 58 65 69 73 76 04D 04Da 04I 12C 13A 13Ab 13Ax 25R 25Rb 25T 30B 30Bl 30D 30Da 36F 36Fa 36Fb 49E 49Ea 51B 58G 58Ga 58Gg 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65F 65Fl 65Fz 65G 65Ge 69B 69Ba 73C 73Cd 76C

11. *Dyspessa ulula* (Borkhausen,1790) (Fig. 10)

Synonym(s): *ulula* Borkhausen,1790; *hepialica* Borkhausen,1790; *hepialina* Hübner,1792; *marmorata* Rambur,1858; *fuscula* Staudinger,1892; *affinis* Rothschild,1917; *maroccana* Rothschild,1917; *pallida* Rothschild,1917 *nec* Roth.,1912. Original Reference: *Phalaena ulula* Borkhausen,1790, Naturg. Eur. Schmett. 3: 142. Type: Germany: Frankfurt. Range (in code): PT ES FR IT DE CH AT PL CZ SK HU RO YU AL BG GR Rd Cr TR RU MD UA BY CY LB Bei IR Kd KG Ssn IQ Mkp GG Tbl Bjo Kir Kak Cc AZ 05 06 07 13 14 16 17 20 21 26 33 36 42 45 46 48 58 60 65 66 05A 06R 06Rb 06Rd 13A 13Ab 13Ax 16A 42B 48F 58N 65A 65Ai 65D 65Dg 65Dh 65N 65Np2 65Nr2 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 10-11 6 2015, 4♂, M. Kemal & A.Koçak leg.



Fig. 10 - *Dyspessa ulula*, at rest. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 11 6 2015, nocturnal, M. Kemal (Cesa)

Ethmiidae**12. *Ethmia candidella* (Alpheraky,1908)**

Synonym(s): *candidella* Alpheraky,1908; *orientella* Caradja,1931. Original Reference: *Psecadia pusiella* var. *candidella* Alphéraky,1908, Horae Soc. ent. ross.38: 616-617. Syntypes: Russia: Taganrog. Range (in code): MA DZ TN PT ES FR IT CH AT CZ SK HU RO YU GR TR IL Jt Pa GG AM Cc IQ Bgd IR Fa Shr Elb Mz RU MD UA BY KG Tk KK UZ 13 16 21 36 42 46 65 71 73 13A 13Ab 13Ax 21N 21Nb 36D 36Db 65A 65Am 65Am4 65D 65Df 65F 65F1 65Fp 65Fz 65N 65Np 65Np7 65Nm

13. *Ethmia iranella* Zerny,1940 (Figs. 11, 12)

Synonym(s): *iranella* Zerny,1940 Original Reference: *Ethmia bipunctella* ssp. *iranella* Zerny,1940, Z. Wien. EntVer. 25: 43. Lectotype ♂: [Iran]: Elburs: Rehne-Demawend, 2600m (Sattler, 1967:93). Range (in code): ES HU GR TR IR Elb Th Dam Kh SY Hal 13 46 71 13A 13Ab 13Ax

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 10 6 2015, GP2184. M. Kemal & A.Koçak leg. (Cesa).



Figs. 11, 12 – *Ethmia iranella*, upperside of male (left). Male genitalia (right) GP2184. Bitlis Province, Süphan Volcano, M. Kemal (Cesa)

Gelechiidae

14. *Sophronia finitimella* Rebel, 1905 (Fig. 13)

Synonym(s): *finitimella* Rebel, 1905 Original Reference: *Sophronia finitimella* Rebel, 1905, [in] Penther & Zederbauer, Annln. naturh. Mus. Wien 20: 213. Syntypes 6♂♀: [Türkei: Kayseri Prov.]: "Erdschias-Gebiet (Illany-Dagh 1300-1500m)" [examined]. Range (in code): GR TR 06 13 38 42 56 06R 13A 13Ab 13Ax 38Ca 42R 42Ra 56F 56Fm. GP2579♂.

The authors had the opportunity to examine the syntypes of *Sophronia finitimella* Rebel from the Natural History Museum Vienna. This very little known species from Ankara and Kayseri (type-locality) in Turkey, is also recorded by the authors from Konya and Siirt Provinces in the past (unpublished new records). The present record is new to Bitlis Province and to East Turkey (Koçak & Kemal, 2009). Apparently this species is more widely distributed in Turkey than expected.

Material studied: 8♂♀. Konya Province, Meram, Kızılören 1500m (42Ra), 25 7 1983, A. Koçak leg.; 1♂. Siirt Province, Şirvan Maden Pass 1360m (56Fm) 1 7 2013. M.Kemal & A.Koçak leg.; 2♂. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m (13Ab) 14 7 2015. M.Kemal & A.Koçak leg. (Cesa).

15. *Sophronia semicostella* (Hübner, [1813])

Synonym(s): *marginella* Thunberg, 1794 nec Den. & Schiff., 1775; *semicostella* Hübner, [1813]; *parenthesella* Haworth, [1828] Original Reference: *Tinea semicostella* Hübner, [1813], Samml. eur. Schmett. 8: pl. 59 fig. 396. Type: Europe. Range (in code): PT ES FR IT GB BE NL LU DE Bw Bv Nrw CH AT TrI PL CZ SK HU RO YU TR DK NO SE FI EE LV LT RU MD UA BY KG 13 13A 13Ab 13Ax.

This species has been recently reported from Turkey and Süphan Volcano for the first time (Kemal & Koçak, 2017a).

16. *Streyella anguinella* (Herrich-Schäffer, 1861) (Fig. 14)

Synonym(s): *anguinella* Herrich-Schäffer, 1861; *ostentella* Zerny, 1934. Original Reference: *Gelechia anguinella* Herrich-Schäffer, 1861, Neue Schmett. 3: 31, fig. 159. Lectotype ♀: [Russia]: Sarepta (ZMHU). Range (in code): DZ ES HV SS GR TR LB Bsa IQ RU Sr Ur 13 46 56 65 70 13A 13Ab 13Ax 56F 56Fb 65A 65Ai 65D 65Df 65F 65Fp 65Fz 70C 70Cf

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 14-15 7 2015, 20♂♀, M. Kemal & A.Koçak leg.

This species is new to Bitlis Province (Koçak & Kemal, 2009).

17. *Syncopacma polychromella* (Rebel, 1902)

Synonym(s): *polychromella* Rebel, 1902; *rebeliella* Caradja, 1920; *argyrobiella* Caradja, 1920 Original Reference: *Anacamptis polychromella* Rebel, 1902, Dt. ent. Z., Iris 15: 109-110. Syntypes 3♂♀: [Israel]: "Haifa (Syrien)" (NHMW). Range (in code): Cn GB PT ES Si IT MT GB YU TR IR Mz LB IL Pa Hf CY JO KW YE IN RU Ur MN 12 13 33 44 46 56 65 12A 12Ab 13A 13Ab 13Ax 33R 44I 44Ic 46G 56F 56Fb 56Fm 65A 65Am 65Am1 65N 65Np2 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 15 7 2015, 5♂♀, M. Kemal & A.Koçak leg.

This species is new to Bitlis Province (Koçak & Kemal, 2009).

18. *Teleiopsis latisacculus* Pitkin, 1988 (Figs. 15- 21)

Synonym(s): *latisacculus* Pitkin, 1988 **Original Reference:** *Teleiopsis latisacculus* Pitkin, 1988, Ent. scand. 19: 163, figs. Holotype ♂: Macedonija: Treska Schlucht, leg. Pinker. **Range (in code):** MK TR EG 13 13A 13Ae 13Ax

In the region, near the Aydınlar village, there is a remnant *Rhus* bushes (**Fig. 15**). During the investigation, a single caterpillar on *Rhus coriaria* (*Anacardiaceae*) has been found on 1st July 2015 (**Fig. 16**), reared by the first author, and a female⁶ emerged on 18 July from the pupa at the end of the process (**Figs. 17-19**). Wing maculations, size, the shapes of anthrum and signum led us to think that it might be *latisacculus* rather than *terebinthinella* (**Figs. 20, 21**). In fact, caterpillars of both species are *Rhus* feeders; therefore they can exist in this region sympatrically. More material of both sexes will allow us to reach the final decision on the identity of this capture.

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, East of Aydınlar, *Rhus coriaria* bushes, 1♀ ex larva, emerged on 18 7 2015, M. Kemal & A.Koçak leg.

This species is new to Bitlis Province (Koçak & Kemal, 2009).



Figs. 13, 14 - *Sophronia finitimella* (left), *Streyella anguinella* (right) (*Gelechiidae*) from Süphan Volcano 1960m 15 7 2015 and 16 7 2015, respectively; both nocturnal. M.Kemal (Cesa)



Fig. 15 - Remnant *Rhus coriaria* bushes near Aydınlar village: Habitat of *Teleiopsis latisacculus*, southern slopes of Süphan Volcano, 1 7 2015, M. Kemal (Cesa)

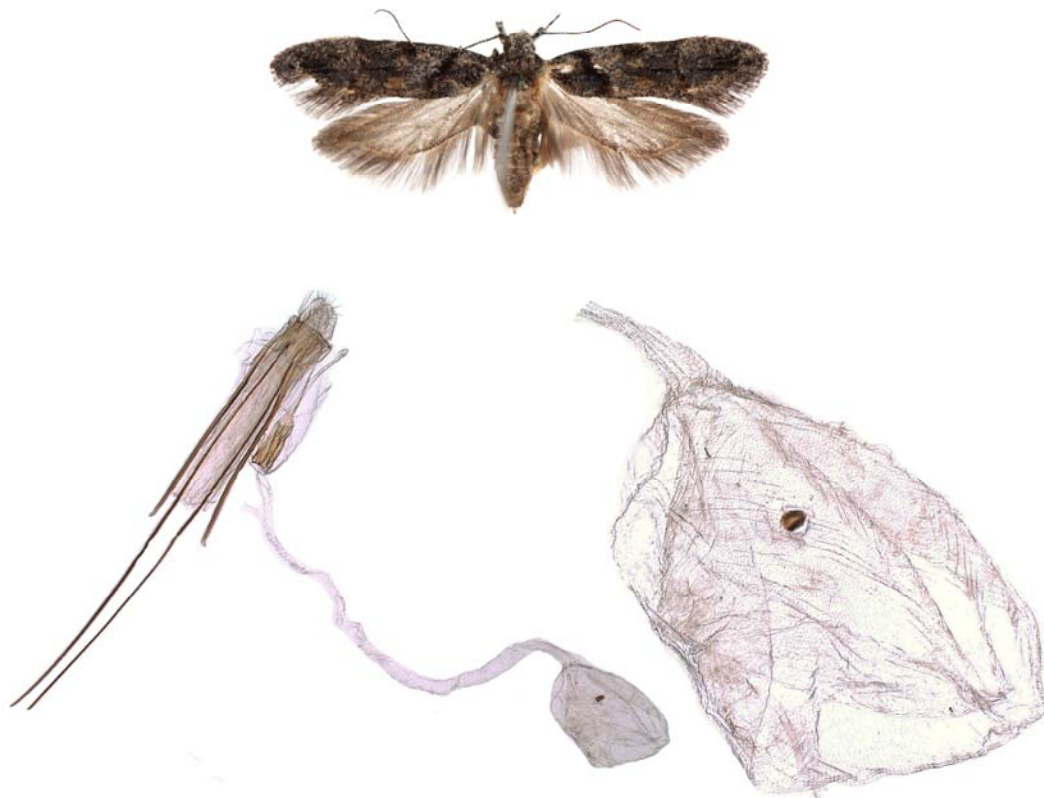
⁶ Wing size of this female: forewing: 7mm, wingspan: 16 mm. It strengthens the identity of this female as *latisacculus*.



Figs. 16, 17 – *Teleiopsis latisacculus*: The caterpillar on 1st July, and the pupa on 5th July on *Rhus coriaria* in captivity. M. Kemal (Cesa)



Figs. 18, 19 – *Teleiopsis latisacculus*: The exuvia of the pupa, and the emerged female on 18th July in captivity. M. Kemal (Cesa)



Figs. 20, 21 - Emerged female of *Teleiopsis latisacculus* (above), and her genitalia. GP2238. Bitlis Province, Adilcevaz, Aydınlar village, 18 7 2015. M.Kemal (Cesa)

Geometridae**19. *Aplocera plagiata* (Linnaeus,1758) (Fig. 22)**

Synonym(s): *plagiata* Linnaeus,1758; *duplicata* Fabricius,1775; *terlineata* Goeze,1781; *triplicata* Geoffroy,1785; *plagiaria* Boisduval,1840; *scotica* Richardson,1952 Original Reference: *Phalaena plagiata* Linnaeus,1758, Syst. Nat. (Edn.10)1: 526. Type(s): Europa. Range (in code): DZ Lbs PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc GG AZ AM Nv IQ Rwz IR Ab Oru Fa Sse Com Kz GlS Kh CY DK NO SE FI EE LV LT RU Krl MD UA BY CN Ui Ju Kön IL Pa Js He LB Bsa 01 05 06 13 14 16 17 18 22 23 24 29 30 31 33 34 35 38 39 42 44 45 46 56 58 60 61 62 65 71 75 80 81 01H 05A 05G 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gw 13Gs 16A 18F 31D 31F 42B 44E 44Eh 46G 46Gi 56F 58N 60H 60Hb 61K 65A 65Aa 65Am 65Am1 65Am4 65An 65Ai 65As 65D 65Df 65F 65Fg 65Fp 65Fz 65K 65Kb 65Kl 65N 65Nc 65Nc4 65Np 65Np1 65Nr4 65Nm 75F 75Fb 80B 80Bc

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 10-11 6 2015, 3♂, nocturnal and diurnal, M. Kemal & A.Koçak leg.



Figs. 22, 23 – *Aplocera plagiata*, at rest (left). *Rhodostrophia badiaria* (right). Both from Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, M. Kemal (Cesa)

20. *Camptogramma bilineatum* (Linnaeus,1758)

Synonym(s): *bilineata* Linnaeus,1758; *brocatella* Fourcroy,1785; *dumetata* Schrank,1802; *bilinearia* Boisduval,1840; *musauria* Freyer,1846; *testaceolata* Staudinger,1871 Original Reference: *Phalaena (Geometra) bilineata* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 525. Type(s): "Habitat in Suecia". Range (in code): MA TN DZ Orn Clo PT ES Mu FR Co Si IT MT IE GB Sc Sht BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR AZ IQ IR Ab Oru Msw Ak Jal Fa Sse Mz GlS Kh DK NO SE FI EE LV LT RU Ur At MD UA Cm BY AZ Kir Cc AM GG KG TM Kp IL Pa LB Bsa 01 05 06 10 13 14 16 17 18 21 22 23 28 30 33 34 35 36 38 39 42 44 45 46 48 52 56 57 59 60 65 73 80 01B 01D 01K 05A 06R 06Rb 06Rd 10K 10Ka 13A 13Ab 13Ax 13C 13Cç 13F 13G 13Gd 13Gg 16A 21L 21Lf 28N 30D 30Dx 31D 33G 33R 36D 36Db 44F 44Fb 44L 44Lc 44O 44Oi 48G 48D 52A 52G 52Gb 56F 56Fa 56Fc 56Fi 56Fn 56Fç 57E 60G 65A 65Ai 65Au 65At 65At2 65B 65Bn 65Bn1 65D 65DI 65Dlc 65Do 65Doa 65F 65Fd 65Fi 65Fz 65N 65Np 65Nm 73A 73Ad 73Ad2 73D 73Df 80B 80Bc

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♂ [diurnal], M. Kemal & A.Koçak leg.

21. *Docirava mundata* (Staudinger,1892)

Synonym(s): *mundata* Staudinger,1892 Original Reference: *Anaitis mundata* Staudinger,1892, Dt. ent. Z., Iris 5: 216-217. Syntypes: [Lebanon]: Beirut. Range (in code): TR LB Bei 01 05 13 38 42 44 46 56 58 65 66 01H 05A 13A 13Ab 13Ax 38H 38Hc 42B 44E 44Eh 44O 44Ob 46G 46Gf 56F 56Fc 56Fq 56Fs 65D 65Df 65F 65Fp 65Fq 65Fz 65N 65Np1 65Nm

22. *Dyscia (Calodyscia) innocentaria* (Christoph,1885)

Synonym(s): *innocentaria* Christoph,1885; *sicanaria* Oberthür,1923; *sicula* Reisser,1940; *#innocentana* Pugaeu & Zolotuhin,2006; *#hazroa* Koçak & Kemal,2015 Original Reference: *Aspilates innocentaria* Christoph,1885, Mém. lepid. 2: 125, pl.6 fig.5. Lectotype ♂: Turkmenia, Achal Tekke, Nuchur, designated by Trusch & Erlacher (2002: 535) (ZISP). Range (in code): Co Sa Si IT YU HV AL MK BG GR RU MD UA Cm TR IQ Ama Shq IR GlS Kh TM JO Amm IL Pa Js SY Dms CY Cc Da GG Bjo Lag AZ Kir AM Eri AF KG 01 05 06 07 13 14 16 17 18 20 21 25 34 35 36 38 42 44 45 46 47 50 56 65 71 13A 13Ab 13Ax 21L 21Lc 56F 65A 65Ai 65Am 65Am1 65Am3 65Am4 65D 65Df 65F 65N 65Np 65Np7 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 15♂♀, M. Kemal & A.Koçak leg.

23. *Eupithecia limbata* Staudinger, 1879

Synonym(s): *limbata* Staudinger, 1879; *irritaria* Staudinger, 1892; *kueppersi* Vojnits, 1973 Original Reference: *Eupithecia limbata* Staudinger, 1879, Horae Soc. ent. ross. 14: 476. Syntypes: [Türkei]: Amasia (Kerasdere). Range (in code): PT ES AN IT SS MK BG GR Cr TR Ksp IQ AM Nv Cc AZ LB IR 05 13 25 30 42 65 76 05A 13A 13Ab 13Ax 42B 65D 65Df 65Fz 76C

24. *Idaea ossiculata* (Lederer, 1871)

Synonym(s): *ossiculata* Lederer, 1871 Original Reference: *Acidalia ossiculata* Lederer, 1871, Horae Soc. ent. ross. 8: 18, pl. 2 fig. 5. Syntypes: [Türkei]: Külek; [Iran]: Astrabad [Gorgan]. Range (in code): MK GR TR Cc AM AZ Nv Ord GG RU Da UA Cm IR Ab Gor Kh LB 01 05 06 07 13 25 30 31 33 38 40 42 44 46 58 65 70 05A 06K 06Kb 13A 13Ac 13Ax 25F 42B 44L 44Lc 46G 46Gf 58N 65A 65Am 65Am1 65Ai 65At 65At5 65B 65Bo 65Bx 65N 65Nc 70A 70Ab

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aydınlar NW 2125m (13Ac) 26 6 2015, 2♂, diurnal, M. Kemal & A. Koçak leg.

25. *Idaea rusticata* ([Denis & Schiffermüller], 1775)

Synonym(s): *rusticata* [Denis & Schiffermüller], 1775; *mustelata* Rambur, 1866. Original Reference: *Geometra rusticata* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 113. Type(s): [Austria]: Vienna district. Range (in code): DZ FR Co Sa Si IT MT GB BE NL DE CH AT CZ SK HU RO YU AL BG GR Cr TR Cc GG AZ AM Nv RU MD UA Cm IL Pa IR Gl Kh AF MN TM KK 05 06 08 13 14 16 22 25 38 39 42 52 56 58 65 75 05A 08H 08Hc 13A 13Ab 13Ax 13G 13Gü 13Gw 13Gy 16A 42B 52G 52Gb 56F 56Fb 56Fi 58N 65N 65Np 65Nm 75F 75Fd

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 3♂, M. Kemal & A. Koçak leg.

26. *Isturgia murinaria* ([Denis & Schiffermüller], 1775)

Synonym(s): *murinaria* [Denis & Schiffermüller], 1775; *nubecularia* Villers, 1789; *myosaria* Esper, [1806]; *cineraria* Duponchel, 1829; *buffonaria* Millièr, 1855 Original Reference: *Geometra murinaria* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: Type(s): [Austria]: Vienna district. Range (in code): PT ES FR Si IT BE DE CH AT PL CZ SK HU RO BG TR AZ AM Cc GG RU Ur MD UA BY KK Ik IR Ab Oru CN Ui Tlk Kun 04 13 16 36 56 65 04E 04Ea 13A 13Ab 13Ax 16A 36D 36Db 56F 56Fi 65F 65Fi 65Fp 65Fz 65K 65Kl 65L 65Lb 65N 65Np 65Nm

Material studied: Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 4 8 2013 2♂, 14 7 2015 1♀, M. Kemal & A. Koçak leg.

27. *Orthonama obstipata* (Fabricius, 1794)

Synonym(s): *obstipata* Fabricius, 1794; *fluviata* Hübner, [1799]; *gemmata* Hübner, 1799; *albicinctata* Haworth, 1809; *angustata* Haworth, 1809; *quaerendaria* Costa, 1850; *baccata* Guenée, [1858]; *lapillata* Guenée, [1858]; *contrariata* Walker, 1862; *exagitata* Walker, 1862; *intrusata* Walker, 1862; *peracutata* Walker, 1862; *signataria* Walker, 1863; *obruptata* Walker, 1863; *pigrata* Walker, 1866; *plemyrata* R. Felder & Rogenhofer, 1875; *inconspicua* Warren, 1896; *brunneipennis* Hulst, 1896; *discata* Warren, 1905 Original Reference: *Phalaena obstipata* Fabricius, 1794, Ent. Syst. 3 (1): 199. Type: Barbaria. Range (in code): PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR IQ Agh GG AM Cc AZ IR Sse Fa AF DK NO SE FI EE LV RU Ur Sb Am Sh MD UA Cm BY KG KK UZ TJ TM CN MN KP KR JP ZA ZA10 ZA12 Kzu Nta IL Pa Jf Mtl LB Bsa MY Bor Shh KBa Kh CY PK Swa Dara Sgl Yek YE Tbl Mng Kir Lag Hkd ZR EG ET KE TZ MA DZ Ges Bsk Nbr Gf TN 01 05 06 07 13 14 16 17 22 31 33 34 42 46 56 65 71 80 01J 05A 13A 13Ab 13Ax 16A 31K 31Ka 31Ka3 33G 56F 56Fb 65A 65Ai 65Am 65Am4 65D 65Dt 65F 65Fp 65Fz 80B 80Bc

28. *Rhodometra sacraria* (Linnaeus, 1767)

Synonym(s): *sacraria* Linnaeus, 1767; *labda* Cramer, 1777; *sacralis* Thunberg, 1784; *fulvaria* Fabricius, 1794; *sanguinaria* Esper, 1801; *minervae* Gistel, 1856; *labdaria* Guenée, [1858]; Original Reference: *Phalaena sacraria* Linnaeus, 1767, Syst. Nat. (Edn. 12) 1(2): 863. Syntypes: [Algeria]: Barbaria (LSL). Range (in code): MA DZ TN PT ES Mu FR Co Sa Si IT MT IE GB BE NL LU DE CH AT CZ SK HU RO YU AL BG GR Cr Rd TR IL Pa Car Jf Js Hf LB Bsa CY IQ Agh TH IR Shr Fa Sse Ahz DK NO SE EE LV RU MD UA BY AF Ca PK Bl Cp Qu ZA ZA04 ZA05 ZA06 ZA27 Kzu Nta Lpo Tva Spb Mdk SH MG MN CN Mre Cp Haz Cls Cn Md Az IN AZ Nv AM Cm SY Hal YE Bea Clo Orn Ges MM ZW TM NA AE CL 01 05 06 07 09 13 16 17 22 27 31 33 34 42 44 45 46 48 51 52 56 58 59 63 65 01B 01D 01G 01H 01J 05A 09K 09Ka 13A 13Ac 13Ax 16A 31K 31Ka 33A 33Aa 33G 33R 44L 44Lc 48L 52G 52Gb 56F 56Fa 56Fi 58N 63D 65A 65Ai 65Am2 65Am4 65Am 65D 65Df 65G 65Gn 65Go 65F 65Fp 65Fz 65K 65Kl 65Kr 65N 65Np 65Nm

29. *Rhodostrophia (Asiatrophia) auctata* (Staudinger, 1879)

Synonym(s): *auctata* Staudinger, 1879 Original Reference: *Pellonia auctata* Staudinger, 1879, Horae Soc. ent. ross. 14: 441-443. Syntypes ♂♀: [Türkei]: Amasia (Maidan). Range (in code): TR Cc Arr Ksp IQ IR Fa Com Kz 01 05 06 12 13 24 25 29 38 42 43 44 46 49 50 51 56 57 58 61 62 65 69 70 71 76 01D 05A 06R 06Rd 12A 12Ab 13A 13Ab 13Ax 25N 25Na 44E 44Eb 44I 44Ic 44L 44Lc 46G 46Gi 50F 50Fb 51D 51Db 56F 56Fs 58N 61K

65A 65Ac 65Ac3 65An 65Am 65Am1 65Bx 65D 65Df 65F 65Fg 65F1 65Fq 65Fz 65G 65Ge 65K 65Kl 65N 65Np 65Np2 65Np4 65Np8 65Nr2 65Nr4 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 4 8 2013 1♂, 10 6 2015 2♂, 2080m 11 6 2015 1♂ diurnal, M. Kemal & A.Koçak leg.

30. *Rhodostrophia (Pellonia) vibicaria* (Linnaeus,1761)

Synonym(s): #vibicaria Clerck,1759; vibicaria Linnaeus,1761; cruentata Scopoli,1763; rubrofasciata Hufnagel,1767; artriosa Fourcroy,1785; cruentaria Villers,1789. Original Reference: *Phalaena vibicaria* Linnaeus,1761, Fauna Suecica (2): 323. Type(s): Sweden. Range (in code): MA DZ ES Mu FR Si IT BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Arr AZ Cc AM GG DK NO SE FI EE LV LT RU MD UA BY IR CN Ui Ku KG Sj At 05 13 14 22 25 29 34 38 39 42 52 57 59 60 61 65 69 75 76 81 05A 05G 13A 13Ae 13Ax 13G 13Gw 14E 14Ea 14Eb 14Ec 14H 14Ha 14Hb 14G 14Ga 14B 14Bc 25N 25Na 42B 52F 52J 52Ja 60H 60Hb 61K 65B 65Bo 65Bx 65F 65Fg 65Fp 65Fz 75F 75Fb 81E

31. *Rhodostrophia (Pydna) badiaria* (Freyer,[1841]) (Fig. 23)

Synonym(s): badiaria Freyer,[1841]; telaria Herrich-Schäffer,[1847]; cervinaria Herrich-Schäffer,[1847]; praecanaria Eversmann,1847; pollenaria Freyer,1854. Original Reference: *Fidonia badiaria* Freyer,[1841], Neuere Beitr. Schmett. 4: 115, Taf.354 fig.2. Type(s): [Russland]: Sarepta. Range (in code): MK RU Sr UA TR Cc AM Da IR Elb IQ 05 06 13 14 21 25 29 30 36 38 40 42 44 46 50 51 56 58 65 71 05A 06R 06Rb 13A 13Ab 13Ax 14F 14G 14Gb 21N 21Nh 36F 40E 40Ea 42B 46B 56F 56Fn 58N 58M 65D 65Dh 65Dr 65Drb 65Ds 65F 65Fw 65Fz 65G 65Gf 65Gt 65M 65Md 65N 65Np 65Np1 65Np2 65Nr7 65Nm 71C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960-2080m, 10-11 6 2015, 3♂, M. Kemal & A.Koçak leg.

32. *Scopula beckeraria* (Lederer,1853)

Synonym(s): beckeraria Lederer,1853; pseudoafghana Ebert,1965 Original Reference: *Acidalia beckeraria* Lederer,1853, Verh. zool.-bot Ver. Wien 3: 258. Syntypes: [Aserbaidjan]: Elisabethpol [=Kirovabad]; [Russland]: Sarepta. Range (in code): IT RO SS MK BG GR TR AZ Nv Kir RU Da Sj GG Cc IL Pa He LB Bsa UZ Fe CN Ui Ku MN IR Fa Sse Com Kz Shr Ahz Ke AF Bm KG MN CN 01 04 05 06 07 13 14 24 25 27 30 36 42 47 51 56 58 63 65 71 72 01H 05A 06K 06Kc 06R 06Rd 13A 13Ab 13Ax 42B 51B 51Bc 56F 58N 65D 65Df 65F 65Fp 65Fz 65M 65Md 65N 65Np1 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 4 8 2013 1♂, 11 6 2015 1♂, 14 7 2015, 3♂♀, M. Kemal & A.Koçak leg.

33. *Scopula immistaria* (Herrich-Schäffer,[1852])

Synonym(s): #elisabetharia Heydenreich,1851; immistaria Herrich-Schäffer,[1852] Original Reference: *Acidalia immistaria* Herrich-Schäffer,[1852], Syst. Bearb. Schmett. Eur. 6: 68. Type(s): [Aserbaidjan]: Elisabethpol [=Kirovabad]. Range (in code): BG Vrn TR Cc AZ Kir GG Ksp IQ IR Fa Sse Com Ke Kz TM RU UA 06 08 13 23 24 25 30 46 47 56 58 65 72 76 08H 13A 13Ab 13Ax 13B 13G 13Gf 46G 47D 56F 56F5 56Fg 56Fm 56Fq 56Fo 56Fs 56Fv 56Fw 56Fx 56F1 58N 65A 65Ai 65An 65Am 65Am1 65At 65At5 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65Dh 65F 65Fm 65Fz 65H 65K 65Kb 65Kl 65N 65Np1 65Nr7 65Nm 72E 72Eh

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 4 8 2013 1♂, 10 6 2015, 1♂, M. Kemal & A.Koçak leg.

34. *Scopula orientalis* (Alpheraky,1876)

Synonym(s): orientalis Alpheraky,1876; #magna L.B.Prout,1913; #orientata Wardikyan,1970 Original Reference: *Acidalia decorata* var. *orientalis* Alpheraky,1876, Trudy russk. ent. Obsch. 8: 197. Syntypes: Russia: Taganrog; Lectotype ♂, designated by Hausmann (2004). Range (in code): MK BG TR RU Ro Ur Tgn Cc AM GG IR Fa Com Kz UA Cm 08 13 25 29 36 50 58 65 08H 08Hb 13A 13Ab 13Ax 25F 36F 50G 50Gd 65D 65Df 65F 65Fp 65Fz

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 10 6 2015, 1♂, diurnal, M. Kemal & A.Koçak leg.

35. *Thalera fimbrialis* (Scopoli,1763) (Fig. 24)

Synonym(s): fimbrialis Scopoli,1763; thymiaria Linnaeus,1767; bupleuraria [Denis & Schiffermüller]1,775; albaria Esper,[1801]; magnata Fuchs,1903; obsoleta Skala,1913; major Warnecke,1930; ochracea Kolossow,1936; approximata Lempke,1949; tangens Lempke,1949; fasciata Hartweg,1951 Original Reference: *Phalaena fimbrialis* Scopoli,1763, Entomologia Carniolica: 216. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): PT ES FR Co Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR AZ AM GG Lag Kir Hkd Cc DK NO SE FI EE LV LT RU MD UA BY KK Ik Ax CN Ui Kun Au IR Elb Th Fa Com Kz 05 13 16 17 22 30 31 33 34 41 42 46 51 56 58 62 65 75 81 05A 13A 13Ab 13Ax 13D 13G 13Gy 16A 31K 31Ka 31Ka5 42B 56F 58N 65A 65Ai 65Am 65Am1 65B 65Bo 65Bx 65D 65Dc 65Dc1 65Df 65F 65Fb 65Fd 65Fg 65Fz 65N 65Nr2 65Nm

36. *Thetidia persica* Hausmann,1996 (Fig. 25)

Synonym(s): *persica* Hausmann,1996 Original Reference: *Thetidia (Antonechloris) persica* Hausmann,1996, Nota lepid. 19 (1/2): 27-29, figs. Holotype ♀: Iran: Elburs mts.c.s., Tacht i Suleiman, Sardab Tal (Vandarbad), 2500-2700m, leg. Pfeiffer & Forster (ZSM). Range (in code): IR Elb Mz Ak Ab TR 13 30 46 58 65 13A 13Ab 13Ax 13G 13Gü 13Gw 30B 30Bd 30Bc1 30Bx 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dh 65Dg 65Dga 65F 65Fg 65Fp 65Fz 65N 65Np 65Nm



Figs. 24, 25 - *Thalera fimbrialis* at rest (left). *Thetidia persica* at rest (right). Both nocturnal and from Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, M. Kemal (Cesa)

Gracillariidae**37. *Caloptilia roscipennella* (Hübner,1796) (Figs. 26, 27)**

Synonym (s): *roscipennella* Hübner,1796; *roscipennis* Haworth,1828; *merulaepennella* Duponchel,[1840]; *puncticostella* Herrich-Schäffer,1855; *juglandella* Mann,1867. Original Reference: [*Tinea*] *roscipennella* Hübner, 1796, Samml. eur. Schmett. 8: pl.29, fig.198. Type: Europe. Range (in code): Cn Md ES FR Co Sa? Si IT BE DE CH AT PL CZ SK HU RO MK TR CY GR RU MD UA BY TJ KG IR IN 13 16 13A 13Ab 13Ax 16A Prep. no: GP2625♀.

This record is new to the fauna of Bitlis Province.



Fig. 26 - *Caloptilia roscipennella*. Upperside of female. GP2625♀. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 14 7 2015. M Kemal (Cesa)



Fig. 27 - *Caloptilia roscipennella*. Female genitalia. GP2625♀. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 14 7 2015. M Kemal (Cesa)

Lasiocampidae**38. *Lasiocampa eversmanni* (Kindermann, 1843)**

Synonym(s): *eversmanni* Kindermann, 1843; *eversmanni* Freyer, 1844; *attrita* Stshetkin, 1960. Original Reference: *Gastropacha eversmanni* Kindermann, 1843, [in] Eversmann, Bull. Mosc. 1843 (3): 542, Pl. 10 figs. 2a-c. Range (in code): BG TR AF Srb Sfk IR Mz Kh TM Kp UZ TJ KK Ik KG TrA Aa DsA Tar IQ Brs Dia Ry Rwz JO Amm GG AZ Kir Tbl Bak AM Cc RU Ao 01 04 06 07 13 19 21 23 25 30 36 44 46 50 56 58 62 63 65 70 71 73 01L 01La 04D 04Da 06D 06Da 06N 06Ne 06R 07C 13A 13Ab 13Ax 13C 13Cf 13F 19P 21N 21Nb 23I 30B 30Bh 30Bg 30D 30Dh 44I 44Ic 56A 56Aa 56F 58N 63M 65A 65Am 65Am4 65Ai 65B 65Bn 65Bn1 65D 65Df 65Dt 65F 65F1 65F8 65Fp 65Fz 65G 65Ge 65Gc 65K 65Kd 65Kg 65Ku 65N 65Ne 65Np 65Np2 65Np7 65Np8 65Nm 73D 73Db

39. *Malacosoma castrensis* (Linnaeus, 1758)

Synonym(s): *castrensis* Linnaeus, 1758; *ksiezopolskii* Sheljuzhko, 1943 Original Reference: *Phalaena Bombyx castrensis* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 500. Syntypes: Habitat in Salicibus, Pilosella, Jacea, Alchemilla, Euphorbia. Range (in code): PT ES FR Co IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU MD UA Cm BY LB Bsa KK Ik UZ TJ KK KG TrA DsA KuA TeA Ik Ssn Lps Tar GG Mng Bjo Smt Lag Kir AZ AM Cc TM Kp IR AF MN CN Ti 04 05 06 12 13 14 16 23 24 25 30 33 35 36 38 42 44 53 56 58 60 65 71 76 04I 05A 06A 06Aa 06R 06Rb 06Re 13A 13Ab 13Ac 13Ae 13Ax 13F 13G 13Gd 13Gi 13Gy 16A 23I 25C 25Ca 25F 25T 30B 30Ba 30Bl 30D 30Da 36D 36F 42R 44L 44Le 49E 49Ea 56F 60C 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dg 65Dga 65Dr 65Drb 65F 65Fd 65Fe 65Fc 65Fp 65Fz 65G 65Ge 65K 65Kd 65Kz 65Kg 65N 65Np 65Np1 65Np2 65Nr2 65Nm 76B 76Bf 76Bh 76C

Lymantriidae**40. *Euproctis chrysorrhoea* (Linnaeus, 1758)**

Synonym(s): *chrysorrhoea* Linnaeus, 1758; *phaeorrhoeus* Haworth, 1803; *xanthorrhoea* Oberthür, 1916 nec Koll., [1844] Original Reference: *Phalaena Bombyx chrysorrhoea* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 502. Type(s): "Habitat in Pomonae arboribus, Quercu, Alno Range (in code): DZ Clo Blid Khh TN Dhm PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Lag Mng DK SE EE LV LT RU MD UA Lvv BY 04 05 06 08 12 13 14 16 19 24 25 36 38 42 46 49 50 55 56 58 60 65 66 71 75 76 04D 04Da 05A 06R 06Ra 06Rb 08H 08Hc 12A 12Ab 12Af 12Aa 12C 12E 12Ec 13A 13Ab 13Ax 13G 13Gy 13F 16A 19C 24G 25A 25C 25Ca 25T 25F 36D 36Db 36F 38C 38Cb 49E 49Ea 55F 56F 56Fs 58G 58Ia 58N 60C 65D 65Df 65F 65Fe 65Fg 65Fp 65Fz 66P 75F 75Fb 76C

Material studied: Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 11 6 2015 14 7 2015 2♂, M. Kemal & A. Koçak leg.

41. *Leucoma salicis* (Linnaeus, 1758)

Synonym(s): *salicis* Linnaeus, 1758; *apparens* Retzius, 1783; *salicinus* Haworth, 1803; *xanthocampa* Dyar, 1905; *coreacola* Matsumura, 1933; *sjoquisti* Bryk, 1942; *variabilis* Bryk, 1949 Original Reference: *Phalaena salicis* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 502. Range (in code): PT ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Lag DK NO SE FI EE LV LT RU MD UA Lvv BY At T-S Sb KK Ik CN Ui Kml Yu Lik MN U-B Am KP KR JP 05 06 07 08 10 12 13 14 16 19 22 24 25 30 36 42 46 49 53 55 56 58 60 61 62 63 65 66 75 05A 06R 06Ra 06Rb 06Re 07C 08H 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 19C 25T 25F 30B 30Be 30Bf 30D 30Da 36F 46D 49E 49Ea 53N 53B 55F 56F 56Fa 58G 58I 58N 60C 61L 62E 63B 65D 65Dl 65Dlc 65F 65Fe 65Fg 65N 65Np2 65Nm 66P 75F 75Fb

Noctuidae**42. *Agrotis (Crassagrotis) bigramma* (Esper, [1790])**

Synonym(s): *bigramma* Esper, [1790]; *crassa* Hübner, [1803]; *lata* Treitschke, 1835; *golickei* Erschoff, 1872; *huguenini* Rühl, 1891. Original Reference: *Phalaena bigramma* Esper, [1790], Schmett. Abb. 4 (2/1): 490, Taf. Noct. 71 Taf. 150. 2. Type: Erlangen (Germany) (ZSM). Range (in code): PT MA DZ TN ES FR Co Sa Si IT IE GB BE DE CH AT PL CZ SK HU RO YU AL BG GR Cr Tr Cc AM GG Smt Bjo Lag AZ Kir CY IQ Brs Dia Ry Rwz Bgd Mos Bgd Amr Dy Mj DK RU Ro Kr Da At MD UA BY IR Kh Gh Elb Th TM Kp CN EG AF LB IL Pa Hf SY Hal JO Abe Sbd Orn Tun Agi Rbt Dhm Perr 01 03 05 06 07 08 13 14 18 21 25 33 36 42 46 50 56 58 59 61 62 63 65 70 73 75 01A 01D 01L 01La 03H 06D 06Da 06R 06Rb 06Y 06Yb 08H 08Hb 13A 13Ab 13Ax 13G 13Gü 13Gw 14I 18F 21F 21N 21Nb 25A 25C 25Ca 25F 25R 25Rb 33E 36F 36Fb 42B 42D 50G 50Ga 50Gd 56F 58R 59D 63E 65F 65Fa 65F1 65Fm 65Fp 65Fz 65Fj 65F8 65K 65N 65Nc 65Ku 70C 70Cb 73D 73Df

43. *Agrotis (s.str.) desertorum* Boisduval, 1840

Synonym(s): *desertorum* Boisduval, 1840; *deserticola* Eversmann, 1842 Original Reference: *Agrotis desertorum* Boisduval, 1840, Genera Index meth. Eur. Lep.: 111. Syntypes: [Russia]: Südrussland. Range (in code): RO BG RU Ro MD UA TR SY IL Pa Hf GG Cc KK TrA KG 04 06 13 18 24 25 30 33 36 42 46 50 51 58 60 62 65 68 69 70 71 04E 06B 06O 13A 13Ab 13Ax 13G 13Gg 13Gü 13Gw 18F 24L 25A 25C 25Ca 25F 25N 25Na 25T 30B

30Bd 30Bx 36D 42R 42Rc 50G 50Gc 50Ge 50Gd 51B 58G 58Gh 58Gi 58N 58R 60C 62G 65Bx 65D 65Du 65F 65Fa 65G 65Ge 65K 65Kl 65N 65Np 65Nm 69A 70C 70Cb 68H

Material studied: Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 11 6 2015 2♂♀, 14 7 2015 7♂, M. Kemal & A.Koçak leg.

44. *Agrotis (s.str.) exclamatoris* (Linnaeus,1758)

Synonym(s): *exclamatoris* Linnaeus,1758; *clavus* Hufnagel,1766; *murina* Goeze,1781 nec *Hufnagel*,1766; *bimaculata* Geoffroy,1785; *picea* Haworth,1809; *plaga* Stephens,1835; *haruspex* Le Cerf,1924; *nigriorbis* Zerny,1934.

Original Reference: *Phalaena exclamatoris* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 515. Lectotype ♂: Europa, designated by Mikkola & Honey,1993. Range (in code): MA DZ TN LY PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE FI EE LV LT RU Ro Kr St Kc Kb Nt Ich Ing Da Kyi MD UA BY CY TR AZ AM GG Cc IR Th Elb Kd Ab Es Ke Kh Fa Bk MN UZ KK KG CN Ui Ku Tlk AF Hr Pli Adr IQ Mos LB Bsa IL Lvv Pa Oru 01 03 04 05 06 07 08 12 13 14 18 24 25 28 30 33 34 36 37 39 36 42 44 45 46 50 51 55 58 60 65 71 04D 04Da 05A 06R 06Ra 07C 08G 08H 08Hb 12C 12Cb 13A 13Ab 13Ax 13B 13G 13Gs 13Gw 14B 14Bb 18F 24L 25A 25C 25Ca 28D 28Db 30B 30Be 33E 33O 34L 36D 36Db 36F 39H 42B 42R 42Rb 44L 44Lc 50G 50Ga 50Gd 50Ge 51B 51Ba 55F 58G 58N 58R 65A 65Am 65Am1 65Am4 65An 65At 65At5 65F 65Fa 65Fg 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 75F 75Ff

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015 2♂, 14 7 2015, 1♂, M. Kemal & A.Koçak leg.

45. *Agrotis (s.str.) ipsilon* (Hufnagel,1766)

Synonym(s): *ipsilon* Hufnagel,1766; *suffusa* [Denis & Schiffermüller],1775; *idonea* Cramer,[1780]; *spinula* Esper,[1786]; *spinifera* Villers,1789. Original Reference: *Phalaena ipsilon* Hufnagel,1766, Berl. Mag. 4

(2): 416. Type(s): [Germany]: Berlin. Range (in code): PT MR MA DZ TN LY ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR DK NO SE FI EE LV LT RU MD UA BY IR Fa Lo Kh IQ Agh Amr kut MN PK Bl Qu AF Kab Gbh Srb Arh LB Bsa SY IL Pa JO Sn EG IN Up Bhi Nnt Kil ZA Tva Lpo Spb Mdk Lvv Hu Rd Hf Nwf AU NC FJ NZ HW EA Th Elb Mz Dam Hz GG Smt Bjo Lag Len AZ AM Cc UZ KK KG TJ TM Ro Kr St Kc Kb Nt Ich Ing Da Kyi ET ET24 Rv Thu LK Pdy Dek Pdn Ab Oru Gls Kh Ges Ah Sbd Btina Bsk Orn Bsa Abe Dhm Afl Onç Ah Ajj Idl Ath 01 03 05 06 07 08 11 13 14 15 16 18 20 21 25 27 30 31 32 33 35 36 37 42 44 46 47 48 49 50 51 56 57 58 62 63 65 67 69 71 80 01D 05A 06R 06Rb 08H 08Hb 11E 13A 13Ab 13Ax 13B 13G 13Gg 13Gf 13Gs 13Gw 14B 14Bb 16A 18F 21N 21Nh 25A 25R 27B 29F 30D 30Df 30Dx 31K 31Ka 33E 33H 36F 36Fb 42R 42Rc 44L 44Lc 46K 47E 48L 49F 49Fb 50G 50Gd 51B 51Ba 51D 51Da 56F 56Fa 56Fo 58G 58N 63D 63M 65A 65Ai 65An 65D 65Dh 65Df 65Di 65Dlc 65Ds 65E 65Eb 65F 65Fa 65Fb 65Fd 65Fg 65Fi 65Fr 65Fp 65Fz 65Fu 65K 65Kl 65N 65Nc 65Np 65Nm 65L 65Lb 69B 80E 80Ea

46. *Agrotis (s.str.) lata* Treitschke,1835

Synonym(s): *lata* Treitschke,1835; *dirempta* Staudinger,1859; *sabura* Mabille,1888; *fulva* Turati,1922; *castellana* Fernandez,1929; *afflouensis* Corti,1932 Original Reference: *Agrotis lata* Treitschke,1835, Die Schmett. Eur. 10 (2): 24. Lectotype: Sizilien (HNHM Budapest). Range (in code): MA DZ TN LY EG PT ES Sa Si MT TR SY IL Pa 13 65 13A 13Ab 13Ax 65D 65Df 65N 65Np 65Nm

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47. *Agrotis (s.str.) segetum* ([Denis & Schiffermüller],1775)

Synonym(s): *segetum* [Denis & Schiffermüller],1775; *sordida* [Denis & Schiffermüller],1775; *undulatus* Goeze,1781 (praeocc.); *nigricornis* Villers,1789; *segetis* Fabricius,1794; *catenatus* Haworth,1803; *monileus* Haworth,1803; *pectinatus* Haworth,1803; *connexus* Haworth,1803; *subatratus* Haworth,1803; *nigricornutus* Haworth,1803; *praecox* Hübner,[1808]; *fervida* Hübner,[1824]; *affinis* Stephens,1829; *sicula* Boisduval,1840; *dimidia* Zeller,1847; *sicania* Guenée,1852; *marginalis* Walker,1857; *aversa* Walker,1857; *correctus* Walker,1857; *obliviosus* Walker,1857; *denticulosus* Wallengren,1860; *certificata* Walker,1865; *conspurcatus* Walker,1865; *repulsus* Walker,1865; *ingratus* Butler,1878; *pallidus* Staudinger,1881; *lassa* Swinhoe,1886. Original Reference: *Noctua segetum* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend:81,t.1,f.3. Type(s): [Austria]: Vienna district. Range (in code): Cn MA DZ TN LY EG PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU MD UA BY CY IR Fa Lo Ss Kh Ha Mz IQ MN CN Ui Ku PK Bl Qu AF Hr Srb Gbh Blh Arh Fz ZW Har ZA Mpu Brb Gau Pre Jh Tva Lpo Spb Mdk Nta Kzu LB Bsa IL Hf Pa SY JO Sn Tkr Agh Bgd Mj Up Bhi Nnt Kil Kml Gh Th Ab Oru Kz Hz Gls UZ KK KG TJ TM Cc Ro Kr St Kc Kb Nt Ing Ich Da Kyi ET ET24 Mre Cp Thu Rw LK Pdy Smt Tbl Bjo Kir Kus IN Hp Sml Haz Cte Mh Nsk Ges Afl Bsa Khh Ktr Btina DhM Abe Lbs Agi Bsk Bdj Lgt Ah Sbd Ess Mzg Hrh Dzc Clo Ah Ajj Idl Lvv 01 05 06 07 11 13 14 15 16 18 21 24 25 27 30 31 32 33 35 36 37 38 42 44 46 49 50 51 56 57 58 60 62 63 65 67 71 80 01D 05A 06R 06Ra 06Rq 06Y 06Yb 07A 07C 11E 13A 13Ab 13Ax 13C 13Cf 13G 13Gü 13Gy 13Gw 13Gs 15F 16A 18F 21N 21Nh 25D 27B 30D 30Db 30Du 30Dx 31K 31Ka 31Ka3 31L 31La 33E 33H 35O 36D 36Db 36F 36Fb 38C 38Cb 44L 44Lc 49F 49Fb 50G 50Ga 50Gd 51B 51Ba 56F 56Fa 58G 58Gh 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65B 65Bn 65Bn1 65D 65Df 65Dg 65Dh 65Dn 65Du 65F 65Fa 65Fd 65Fg 65Fi 65Fj 65Fp 65Fu 65Fz 65G 65Ge 65K 65Kl 65L 65Lb 65N 65Np 65Np1 65Np2 65Nm 80E 80Ea

48. *Amphipyra (s.str.) livida* ([Denis & Schiffermüller],1775)

Synonym(s): *livida* [Denis & Schiffermüller],1775 Original Reference: *Noctua livida* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 85. Type(s): [Austria]: Vienna district. Range (in code): ES FR Co IT DE CH AT PL CZ SK HU RO YU BG GR TR AZ Kir GG Lag Cc DK FI LV LT RU Ro Kr St Nt MD UA BY JP 01 05 08 12 13 30 33 42 56 65 73 01K 05A 13A 13Ab 13Ax 13C 13Cf 30B 30Bf 33G 33R 42D 42Dd 56E 56Eh 56F 65A 65Ab 65Aba 73D 73Da

49. *Apamea (s.str.) crenata* (Hufnagel,1766)

Synonym(s): *crenata* Hufnagel,1766; *rurea* Fabricius,1775; *alopecurus* Esper,[1788]; *combusta* Hübner,[1808]; *hirticornus* Haworth,1812; *corsa* Schawerda,1928 Original Reference: *Phalaena crenata* Hufnagel,1766, Berl. Mag. 3 (4): 402. Type(s): Germany: Berlin. Range (in code): ES FR Co IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR Rd TR Cc GG Smt Bjo Lag IR Mz Elb DK NO SE FI EE LV LT RU Kr St Kb Kc Nt Ich Ing Da MD UA Lvv BY CN KK Skm TeA TrA Na Ik Skm Krl JP 04 13 14 18 36 43 53 65 69 75 04I 13A 13Ab 13Ax 53N 65Bx 65G 65Ge

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Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♂, M. Kemal & A.Koçak leg.

50. *Apamea (s.str.) ferrago* (Eversmann,1837)

Synonym(s): *ferrago* Eversmann,1837 Original Reference: *Xanthia ferrago* Eversmann,1837, Bull. Soc. imp. nat. Moscou 1837: 41. Type(s): Russland: Kasan. Range (in code): LV RU St Kb Kc Nt Ich Da Ur MD UA BY TR AM Cc GG Smt Bjo Bku Kus IR Kdv Elb Th Dam Mz AF CN Ui KG Tk KK Ik Ax TrA 04 08 13 24 25 36 38 46 50 51 58 60 61 65 75 76 04I 13A 13Ab 13Ax 13G 13Gü 13Gw 25C 25Ca 25F 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65G 65Ge 65Gü 65Gz 65F 65Fç 65Fz 76C

51. *Apamea (s.str.) leucodon* (Eversmann,1837)

Synonym(s): *leucodon* Eversmann,1837; *bidens* Eversmann,1852; *anatolica* Rebel,1933 Original Reference: *Hadena leucodon* Eversmann,1837, Bull. Soc. imp. nat. Moscou 1837: 37. Syntypes: Astrachan, Sarepta. Range (in code): TR Cc RU Da IL Pa IR Fa Sse AF TM KK Ik Na T-A Sb At MN CN Ui 04 06 13 25 33 36 42 44 46 50 51 58 60 65 04D 04E 06K 06Kc 13A 13Ab 13Ax 36D 36Db 60C 65Bx 65D 65Dg 65F 65Fm 65G 65Ge 65L 65Lb 65N 65Nc 65Np 65Np1 65Np2 65Nm

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52. *Arenostola unicolor* W.Warren,1914

Synonym(s): *unicolor* W.Warren,1914 Original Reference: *Arenostola unicolor* W.Warren,1914, Novit. zool. 21: 404. Syntypes 3♀: "Tedschen Oasis, Transcaspiya". Range (in code): TR Cc TM Kp IR Kd Snj Mrv Bne Lo KG Tk Dj KK Na 01 13 19 36 46 50 58 60 65 13A 13Ab 13Ax 19P 50G 50Gd 58G 65F 65Fa

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53. *Autographa gamma* (Linnaeus,1758)

Synonym(s): *gamma* Linnaeus,1758; *messmeri* Schadewald,1992; *voelkeri* Schadewald,1992. Original Reference: *Phalaena gamma* Linnaeus,1758, Syst. Nat. (Edn.10): 513. Lectotype ♀: [Europa], designated by Mikkola & Honey,1993. Range (in code): PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR CY LB Bsa DK NO SE FI EE LV LT RU MD UA BY IQ Agh Mj IR Fa Elb Mz Dam Th Kdj Kz Yas Skh Bu Dlk AF Jla Kab Bsg Nu Adr CN Ui Ku IL Pa Hf JO EG Sn GG AZ AM Cc KK Ik Lvv TrA Ax UZ KG Ro Kr St Kb Kc Nt Ing Da Kyi ET ET24 SY Hal Ak Shf Ab Ar Gh Gls Kh Se Qz Zj Kd Km Lo By Bk Es Bu Ss MA DZ Blid Bsk Tlm Btma Orn Lbs Agi Hrh Abe Khh Ahr Hmk Ges Perr Bdj Ndr DhM TN BSA Sbd Tgr Hes Clo Ajj 01 03 04 05 06 07 08 10 13 14 16 17 18 19 21 24 25 26 28 30 31 32 33 35 37 38 39 42 43 44 48 49 50 51 52 56 58 61 62 63 65 66 73 75 76 80 05A 06P 06Pb 06R 06Rb 10K 10Ka 13A 13Ab 13Ax 13G 13Gg 13Gg 13Gö 13Gs 13Gw 16A 21L 21Lc 21N 21Nh 30B 30Bb 30Bk 30D 30Dx 31K 31Ka 31Ka3 31Ka7 33A 33Ac 33E 44L 44Lc 48L 49F 49Fb 56F 58N 63D 65A 65As 65Bx 65E 65Eb 65Ec 65Eç 65Ed 65D 65Dr 65F 65Fd 65Fu 65G 65Ge 65K 65Kl 65Kp 65Ku 65M 65Mc 65Md 65N 65Nc 65Np 65Nr7 65Nm 73A 73Ac 73Ac1 73H 75F 75Fg 76A 76Ac 76B 76Bb 76Bf 76Bh

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015 2♂ [diurnal], 14 7 2015, 1♂ [nocturnal], M. Kemal & A.Koçak leg.

54. *Behounekia freyeri* (Frivaldsky,1835) (Fig. 28)

Synonym(s): *freyeri* Frivaldsky,1835; *linthea* Freyer,1842; *orontii* Herrich-Schäffer,[1851]; *senescens* Eversmann,1856; *#linthea* Lederer,1870 Original Reference: *Xylina freyeri* Frivaldsky,1835, Tarsas Tud. Akad. Evkönyv. 2:273. Syntypes: Balkans. Range (in code): MK BG GR TR AM GG AZ Kir Cc RU Da SY 01 05 06 13 18 21 25 30 32 35 36 38 42 46 47 49 50 51 56 62 65 73 05A 13A 13Ab 13Ax 13G 13Ga 13Gs 13Gw 21N 21Nb 30B 30Bd 30Bx 36D 36Db 38H 49F 49Fb 56F 65A 65Am 65Am1 65D 65Dg 65Dh 65Ds 65F 65Fç 65Fg 65Fu 65K 65Kl 65L 65Lb 65A 65Am 65Am4 65An 65N 65Nc 65Np 65Np2 65Nm 73A 73Ab

55. *Calamia staudingeri* Warnecke,1941

Synonym(s): *staudingeri* Warnecke,1941 Original Reference: *Calamia staudingeri* Warnecke,1941, Z. wien. entVer. 26: 101-102, fig. Syntypes: [Turkey]: [Adana Pr.]: "Hadjin"; "Sivas"; [Konya Prov.]: "Ak-Schehir"; Armenien. Range (in code): TR IQ Cc AM RU Ich IR Fa Elb Bk Lo By Es Ha Th Mz Plr Dam Kd 01 04 13 25 30 36 38 42 51 58 65 76 01K 04C 13A 13Ab 13Ax 13B 13G 13Gü 13Gw 30D 30Dp 42B 58N 65B 65Bo 65Bx 65D 65Dd 65Df 65Dg 65Dga 65F 65Fa 65Fp 65Fz 65Fr 65G 65Ge 65K 65Kd 65Kg 65N 65Np2 65Nm 76C 76D 76Dd

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, 3♂, M. Kemal & A.Koçak leg.

56. *Calophasia lunula* (Hufnagel,1766)

Synonym(s): *lunula* Hufnagel,1766; *linariae* [Denis & Schiffermüller],1775. Original Reference: *Phalaena lunula* Hufnagel,1766, Berl. Mag. 3(3): 394. Type(s): [Germany]: Berlin. Range (in code): ES FR Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG Hsk GR TR GG Smt Bjo Cc DK NO SE FI EE LV LT RU Ro Kr St MD UA Lvv BY AF CA IR Lo Elb Th Kdj KK Skm KG Tu Tk 01 04 05 06 08 13 14 18 24 25 30 33 36 42 49 50 51 56 58 65 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Ge 13Gs 13Gw 30B 30Bg 36D 36F 56F 56Fh 56Fn 58G 65A 65Am 65Am1 65Bx 65G 65Ge 65F 65Fa 65H

57. *Catocala (Ephesia) brandti* Hacker & Kautt,1999

Synonym(s): *brandti* Hacker & Kautt,1999 Original Reference: *Catocala brandti* Hacker & Kautt,1999, Esperiana 7: 430-431, figs. Holotype ♂: Iran: Esfahan: 57km S. Borujen 3km S Dorahan, 1950m, 8.vi.1997 (leg. Hofmann & Kautt) (coll. Hacker). Range (in code): IR Es Lo Fa Shr Kd Mrv Bne Kaz Mia Km Kz Skh Yas Elb Mz GlS TR GR 13 25 30 47 56 63 73 13A 13Ab 13Ax 25F 30B 30Be 47D 47Da 56C 56Cc 56F 56Fb 56Fc 56Fü 56F6 73A 73Ab 73D 73Df

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58. *Chazaria incarnata* (Freyer,1838) (Fig. 29)

Synonym(s): *incarnata* Freyer,1838; *boisduvali* Boisduval,1840. Original Reference: *Heliothis incarnata* Freyer,1838, Neue. Beitr. Schmett. 3:91, Tab. 256, fig. 4. Type(s): [Türkei]: Konstantinopel [=Istanbul]. Range (in code): DZ Orn Ahr BSa Ges Agi PT ES Mu IT RO YU BG GR TR GG Smt Tbl AZ Kir AM Cc RU Ro St Da MD UA BY IR Fa Com Elb Th Kdj Mz Ab Mak Ss Hz B-A Bu Dlk IQ AF Hr Pli IL Pa SY 01 05 06 07 13 18 20 21 23 24 25 33 34 36 38 39 42 44 45 46 50 51 58 63 65 71 01H 05A 06R 13A 13Ab 13Ax 21N 21Nb 21Nh 23I 36D 36Db 44L 44Lc 58N 65A 65Ai 65F 65Fa 65Fp 65I 65M 65Md

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59. *Chersotis (s.str.) fimbriola* (Esper,[1798])

Synonym(s): *fimbriola* Esper,[1798] Original Reference: *Phalaena fimbriola* Esper,[1798], Die Schmett. 4(2/2): 53, Taf.193, fig.3. Type(s): Ungarn: [Budapest]. Range (in code): MA Rf ES FR Si IT CH AT SK HU RO YU AL BG GR Cr TR Cc AM Eri Geg GG AZ Nv Ord RU Ro Kb Nt Ich MD UA Cm BY IR Kh KuB Elb Kdv Dam Fa Bk By Es Ha Zj Mz Th Ab Bne Ssq Mrv Oru Sdt Lo Kd TM IQ 01 03 04 05 06 08 12 13 18 19 23 24 25 29 30 36 38 42 44 46 49 50 51 56 58 60 65 66 69 70 73 76 04D 04Da 04I 05A 06A 06Aa 06B 06Bb 06C 06Cb 06K 06Kc 06R 06Ra 06Y 06Yb 08H 08Ha 08Hb 13A 13Ab 13Ax 13B 13C 13Cf 13G 13Gf 13Gy 13Gü 13Gw 19C 23I 25C 25Ca 25F 29A 29Ab 30B 30Bd 30Bx 30Be 30Bg 30D 30Dt 36D 36Df 36F 36G 38G 38Ga 42B 42D 42O 44F 44Fa 44L 44Lb 44I 46G 49E 49Ea 50G 50Ga 56F 56Fb 56Fq 56Fs 58N 60C 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Df 65F 65Fa 65Fm 65Fp 65Fz 65G 65Ge 65K 65N 65Np1 65Np2 65Nm 66P 70C 70Cb 71C 71Cd 73C 73Cd 73D 73Da 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 1♂, M. Kemal & A.Koçak leg.

60. *Cornutiplusia circumflexa* (Linnaeus,1767)

Synonym(s): *circumflexa* Linnaeus,1767; *lunata* Fabricius,1787; *flexuosa* Donovan,1807; *daubii* Freyer,1838; *graphica* Herrich-Schäffer,1851; *patefacta* Walker,[1858]; *reticulata* Moore,1882; *clarescens* Pinker & Bacallado,1975; *#unata* Kononenko & Pinratana,2005 Original Reference: *Phalaena circumflexa* Linnaeus,1767, Syst. Nat. (Edn.12) 1: 844. Type(s): Europa. Range (in code): Md Cn PT ES Si IT GB CH RO AL BG GR TR Cc CY IQ kut Kro Amr Mj Agh FI RU MD UA BY IR Fa By Kz Yas Hz Ss Ke Kh Ab Oru Mak Elb Th Mz CN Ui Ku KK Ik UZ KG DsA AF Ca Hr Gbh ZA Gau Pre Tva Ec Grh Cto Wca Nta Kzu Est IN NP LK LB Bsa IL Pa Hf SY JO TH Cma Php MM GG AM AZ Cc Skh Sdt Ak Ar Gh GlS Kh Se Ha Kd Km By Bk Es Bu Ke Hz Ss Snj Lo Kaz Mia Dlk B-A TM Kp N-A TJ Chr Pm Ro Kr Kb Kc Nt Ich Da ET ET24 ET36 ET86 ET196 DJ DJ44 Smt Bjo Lag Dar Nv Ord Hal 01 04 05 06 07 08 13 16 18 20 21 22 24 25 27 30 31 33 34 35 38 46 47 48 50 51 56 60 63 65 66 73 76 80 05A 13A 13Ab 13Ac 13Ax 13G 13Gü 13Gw 13Gz 16A 21N 21Nh 47G 56F 63D 65A 65Ac 65Ac3 65Am 65Am2 65An 65Ai 65Bx 65D 65DI 65Dlc 65Ds 65G 65Ge 65F 65Fr 65Fu 65K 65Kp 65L 65Lb 65N 65Nc 65Nc4 65Nm 65Np 73A 73Ac 73Al 76A 76Ac

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂, M. Kemal & A.Koçak leg.

61. *Cryphia (Bryoleuca) raptricula* ([Denis & Schiffermüller],1775)

Synonym(s): *raptricula* [Denis & Schiffermüller],1775; *divisa* Esper,[1791]; *divisa* Esper,1791; *palliola* Borkhausen,1792; *pomula* Borkhausen,1792; *deceptricula* Hübner,[1803]; *carbonis* Freyer,1849; *felina* Eversmann,1852; *oxybiensis* Millièr,1875; *#striata* Staudinger,1879; *eretina* Calberla,1888; *raptriculoides* Turati,1912; *bryophiloides* Rothschild,1914; *#persica* Strand,1915; *cretica* Reisser,1962 Original Reference: *Noctua raptricula* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]: Vienna district. Range (in code): MA DZ TN EG PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AM AZ Cc CY DK NO SE FI EE LT RU LB Bsa IL Pa SY Hal JO EG IR Fa Lo By Yas Ss Es Ke Ha Mz Kz Kdj Elb Dam Mia Km Kd Snj IQ Tkr AF Gbh Pli Srb CN Ui PK KG Tk Dj KK Skm Ik TrA Feg UZ N-A Ro Kr St Kb Nt Ich Da Kir Bak Nv Ord Bne Mrv Kh Ges Agi Sfr Abe Sbd Blid Hrh 01 03 05 06 07 08 12 13 19 24 25 28 30 32 33 36 39 42 46 49 50 51 56 58 62 65 66 70 73 01H 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gw 30B 30Bd 30Bx 42J 42X 42Xa 46G 46Gf 49E 49Ea 56F 56Fa 56Fc 56Fj 56F3 56F5 56Fq 56Fb 56Fc 56Fv 56F1 65A 65Ac 65Ac3 65F 65Fr 65Fp 65Fz 65Fm 65Fg 65N 65Np 65Np2 65Nm 73A 73Ad 73Ad2

62. *Cucullia (s.str.) argentina* (Fabricius,1787) (Fig. 30)

Synonym(s): *argentina* Fabricius,1787; *grisescens* F.Wagner,1931 nec Lch.,1900; *anatoliensis* Koçak,1980.

Original Reference: *Noctua argentina* Fabricius,1787, Mant. Ins. 2: 162, nr.185. Type(s): Russia australiori. Range (in code): DZ Sfr BtNa BSa Kh SK BG RU Ro St Kyi Da MD UA BY TR Cc IR Elb Th Dam Ab Oru Mak Fa Ss Kh CN Ui Khr Ku KG Tk Dj 04 05 06 13 14 25 27 30 36 38 42 50 58 65 71 04E 05A 06C 06Cb 06K 06Kc 13A 13Ab 13Ax 13G 14H 30B 30Bg 36D 36Db 36F 42B 58G 58N 65F 65Fa 65Fç 65Fz 65N 65Np6 65Nm

63. *Dichagyris (Albocosta) flammata* ([Denis & Schiffermüller],1775)

Synonym(s): *flammata* [Denis & Schiffermüller],1775; *bimaculata* Milliere,1885. Original Reference:

Noctua flammata [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 80. Type(s): [Austria]: Vienna district. Range (in code): MA PT ES FR Co Si IT GB DE CH AT PL CZ SK HU RO YU BG GR Cr TR GG Akh Smt Cc AZ Hkd IR Fa Yas By Lo Kh Mz Elb Kdj Dam Kz LB Bsa CY IL Pa SY JO Sn EG IQ Mos TIH DK RU At Sb MD UA BY CN Ui Ii KG Tk Dj AF Hr Pli Gbh Ch PK Rw Ti SI UZ N-A KK TrA Ro St Nt Kb Ich Ing Kyi Da Tbl Bjo Kir Lag Nv Ord Bak Len GlS Kh DZ Sfr Sbd Ges Psu Gg Sai 01 04 06 07 13 21 24 25 28 30 32 33 36 38 39 43 44 45 46 47 49 50 51 53 58 60 61 63 65 66 70 06Y 06Yb 13A 13Ab 13Ax 13G 13Gs 13Gw 44L 44Lc 50G 50Gd 53N 58G 60C 63L 65A 65Ai 65Am 65Am4 65At 65At5 65Ab 65Aba 65D 65Df 65F 65Fe 65Fr 65Fp 65Fz 65K 65Kl 65Kd 65Kg 65N 65Np 65Np6 65Nm 70C 70Cf



Figs. 28, 29 - *Behounekia freyeri* (left), *Chazaria incarnata* (right). Both from Süphan Volcano, Aygır 1960m 10 6 2015. M. Kemal (Cesa)



Figs. 30, 31 - *Cucullia argentina* (left), *Eublemma (Glossodice) polygrammum* (right). Both nocturnal and from Süphan Volcano, Aygır 1960m 15 7 2015. M. Kemal (Cesa)



Figs. 32, 33 – *Eublemma minutatum* (left), *Eublemma amoenum* (right). Both nocturnal and from Süphan Volcano, Aygır 1960m 10 6 2015. M. Kemal (Cesa)



Figs. 34, 35 – *Eublemma caelestis* (left), *Eublemma suppurum* (right). Both nocturnal and from Süphan Volcano, Aygır 1960m 15 7 2015. M. Kemal (Cesa)

64. *Dichagyris (Yigoga) eureteocles* (Boursin,1940)

Synonym(s): *eureteocles* Boursin,1940 Original Reference: *Agrotis eureteocles* Boursin,1940, Mitt. münch. ent. Ges. 30: 482, Taf.8 f.15. Holotype ♂: Armenia: Darasham am Araxes. Range (in code): AM Cc RU Da TR IR Elb Th Ma Ara Ss Ke TM Kp 06 13 25 36 50 58 65 06Y 06Yb 13A 13Ab 13Ax 25F 36F 36Fb 50G 50Gb 58G 65D 65Df 65N 65Np1 65Np2 65Np7 65Np8 65Nm
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65. *Dichagyris (s.str.) leucomelas* Brandt,1941

Synonym(s): *leucomelas* Brandt,1941 Original Reference: *Dichagyris leucomelas* Brandt,1941, Mitt. münch. ent. Ges. 31: 843, fig.15. Syntypes: Iran: [Belutschistan]: Kouh i Taftan, 2000-2800m; Fort Sengan, 1800m; [Khorassan]: Kouh i Binaloud bei Meched. Range (in code): MA IR Fa Ss Kh Bk Lo Es Ke Ha Yz Th Elb Km Kd Snj Mrv TR RU Cc Ro AF Pli Gbh Srb KK Skm UZ TJ PK Bt Skd Gg Cls Psu IN Ld IL Pa Sn EG 13 25 30 58 65 13A 13Ab 13Ax 25F 25R 30B 30Bd 30Bx 30D 30Db 58G 65A 65Ac 65Ac3 65D 65Df 65F 65Fa 65Fz 65G 65Ge 65K 65Ky
New to the fauna of Bitlis Province!

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, 8♂♀, M. Kemal & A.Koçak leg.

66. *Drasteria cailino* (Lefèbvre,1827)

Synonym(s): *cailino* Lefèbvre,1827; *caylino* Lederer,1857 Original Reference: *Heliotis cailino* Lefèbvre,1827, Mém. Soc. linn. Paris 6: 94-96, pl.5 fig.1. Type(s): [Italia]: Sicilia. Range (in code): MA PT ES Mu FR Si IT RO YU AL BG GR TR IL Pa LB Bsa SY IQ Dia Ry Rwz Brs RU Sr Ro Da AF Kab Nu Bsg Hr Bd Adr IR Bk Ke Ha Es Lo Fa Ss Kh Elb Th Dam Kz Skh Yas Sqk Kd Snj Km Hz AZ Kir Nv Ord Cc GG AM KG Ssn Lps At CN Ui Ga Au Pm Tk Dj KK Ik Skm PK SA YE Ab Sdt Kd Snj Bjr Zj Bne Mrv DZ Bsa Ktr Orn Bsk Onç TN Gf 01 03 04 05 06 08 13 14 18 21 24 25 29 30 33 42 44 45 46 50 51 56 58 60 62 65 66 69 73 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gw 21N 21Nb 21Nh 30D 30Dx 30Dp 42J 42X 42Xa 56F 56F1 58N 65A 65Ac 65Ac3 65Ai 65An 65Am 65Am1 65D 65Df 65Dj 65F 65Fa 65Fp 65Fz 73D 73Df 73Dfc

67. *Earias* sp.

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 4 8 2013 1ex, 14 7 2015, 3 ex, M. Kemal & A.Koçak leg.

68. *Eublemma (Glossodice) polygrammum* (Duponchel,[1842]) (Fig.31)

Synonym(s): *polygramma* Duponchel,[1842]; *argillacea* Eversmann,1844; *nuda* Christoph,1862; *violetta* Staudinger,1889. Original Reference: *Anthophila polygramma* Duponchel,[1842], Hist. nat. Lép. Pap. Fr. 3: 519. Syntypes: France: Digne, Lyon; Schweiz: Wallis. Range (in code): DZ Lbs PT ES Mu FR IT CH AT PL RO YU AL BG GR Cr TR CY AZ Kir Hkd Nv Ord Cc IR Fa Bk By Mz Es Elb Th Kd Sqq Bne Bjr Ab Mak Kz Yas Mia Shr Ss Hz B-A IQ RU Ro St Nt Ing Da MD UA BY LB Bsa Bei IL Pa Hf JO 01 03 04 05 06 07 14 18 23 24 25 30 33 35 42 44 46 50 51 56 58 60 65 66 70 75 76 05A 13A 13Ab 13Ax 13G 13Gy 44L 44Lc 56F 56Fa 56Fv 56Fm 56Fi 56Fs 56Fa 56Fö 58G 58N 65A 65Ac 65Ac3 65Ai 65D 65Df 65F 65Fe 65Fr 65Fp 65Fz 65K 65Kl 65Kd 65Kg 65N 65Np2 65Np6 65Nm 70C 70Cf 76C

69. *Eublemma (albida-gr.) gratissimum* (Staudinger,1892)

Synonym(s): *albida* auct.; *gratissima* Staudinger,1892; *infusca* Staudinger,1892; *transmittens* Christoph,1893; *peralba* Schawerda,1923. Original Reference: *Thalpochares albida* var. *gratissima* Staudinger,1892, Dt. ent. Z., Iris 4: 317. Syntypes: [Türkei]: Hadjin, Mardin, Amasia: [Lebanon]: Beirut. Range (in code): IQ Mos Kbl LB Bsa CY TR Cc LB Bei JO IL Pa Hf IR Fa Km Kd Snj Lo TM AF 01 05 07 08 13 17 23 24 25 30 31 40 44 46 47 50 56 58 62 65 73 76 01K 05A 08H 08Ha 13A 13Ab 13Ax 13B 13G 13Gg 17C 25F 30B 30Bd 30Bc1 30Bx 31K 31Ka 31Ka5 31M 44E 44Eh 44I 44Lc 44L 44Lc 56F 56Fa 56Fm 56Fi 56Fc 56Fs 65B 65Bo 65Bx 65D 65Df 65F 65Fm 65Fz 65K 65Kb 65Kd 65Kg 65N 65Nc 65Nc4 65Np2 65Nm 73A 73Ad 73Ad2 76C

70. *Eublemma (candidana-gr.) minutatum* (Fabricius,1794) (Fig. 32)

Synonym(s): *minutata* Fabricius,1794; *noctualis* Hübner,1796; *paula* Hübner,[1809]. Original Reference: *Phalaena minutata* Fabricius,1794, Ent. Syst. 3 (2): 205. Type(s): Halae [Halle]. Range (in code): ES FR Co IT BE DE CH AT PL CZ SK RO YU AL BG GR AM TR Cc GG Lag AZ Nv Ord DK NO SE FI EE LV LT RU Ro Ich MD UA BY LB Bsa 08 13 18 24 25 36 42 44 46 50 56 60 65 76 13A 13Ab 13Ax 36D 36Db 44L 44Lc 56F 56Fc 56Fs 56Fq 65A 65Am 65Am1 65D 65Df 65Dh 65Fz 65N 65Nb 65Np1 65Nm 76B 76Bb 76C

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71. *Eublemma (bulla-gr.) suppurum* (Staudinger,1892) (Fig.35)

Synonym(s): *suppura* Staudinger,1892 Original Reference: *Thalpochares suppura* Staudinger, 1892, Dt. ent. Z.,Iris 4: 320. Syntypes: [Türkei]: Mersin, Taurus, Gjaur Dag, Malatia. Range (in code): Si CY TR LB Bei Bsa 01 07 13 23 31 33 44 46 47 63 65 13A 13Ab 13Ax 13G 13Gn 13Gw 23G 23Ga 33R 33N 44L 46G 63E 65B 65Bo 65Bx 65D 65Dp 65F 65Fp 65Fz 65G 65Ge 65Gü

72. *Eublemma (parva-gr.) parvum* (Hübner,[1808])

Synonym(s): *parva* Hübner,[1808]; *rubefacta* Mabille,1869; *chalybea* Swinhoe,1884; *nymphodora* Meyrick,1902. Original Reference: *Noctua parva* Hübner,[1808], Samml. eur. Schmett., Noctuae: Taf.77 fig. 356. Type(s): [Europa]. Range (in code): MA DZ TN LY EG SD PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT CZ SK HU PL YU AL BG GR Cr CY TR DK RU MD UA IL Hf SY IQ Brs Ry R wz Dia Agh Amr LB Bsa JO SA IR Ab Mrd Elb Th Kdj Kd Sqq Mak Fa Ss Kh Bk Ha AF Hr Srb Gbh Kab Ca Dwe Arh PK IN TH ID ZA YE Ad AU Snj Mia Km Kz Yas Hz B-A Cc St Da Len AZ Nv Ord Bne Mrv Hrh Ges Perr Sfr Sbd Abe Bt na Clo Tgr Hes 01 05 07 08 13 16 25 31 33 46 47 48 50 56 58 63 65 80 05A 07C 13A 13Ab 13Ax 16A 31K 31Ka 48L 56E 56Eh 56F 56Fm 56Fö 58N 63E 63L 65A 65Am 65Am1 65D 65Df 65Dg 65F 65Fp 65Fz 65N 65Nc 65Nc4

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73. *Eublemma (rosina-gr.) amoenum* (Hübner,[1803]) (Fig. 33)

Synonym(s): *respersa* Hübner,1790 (praeocc.); *amoena* Hübner,[1803]; *bithynica* Bethune-Baker,1888. Original Reference: *Noctua amoena* Hübner,[1803], Samml. eur. Schmett. 4: pl. 61 fig.300. Type: Europa. Range (in code): ES Mu FR Co Sa Si IT AT SK HU RO YU MK AL BG GR Cr TR GG Mng AZ AM Cc Kir Skm RU Ro Kr St Nt Ich Da IR Mz TM Kp KK UA 01 04 05 07 13 14 16 18 25 33 42 45 50 51 58 65 69 70 05A 07D 13A 13Ab 13Ax 14B 14Bb 16A 33A 58N 65F 65Fd 65Fg 65K 65Kd 65Kg 65N 65Nc 65Np6 65Nm 70C 70Cf

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74. *Eublemma (rosina-gr.) caelestis* (Brandt,1938) (Fig. 34)

Synonym(s): *caelestis* Brandt,1938 Original Reference: *Porphyria caelestis* Brandt,1938, Ent. Rdsch. 55: 558-559, figs. 168-171. Syntypes: Iran: [Fars]: Fort Sine-Sefid, Comée. Range (in code): IR Fa Zj Kd Bjr TR PK 13 23 30 44 58 65 13A 13Ab 13Ax 13B 23G 23Ga 30B 30Ba 58G 65D 65Df 65Fz 65K 65Kd 65Kg 65N 65Np5 65Nm

75. *Euchalcia emichi* (Rogenhofer,1873)

Synonym(s): *emichi* Rogenhofer,1873 Original Reference: *Plusia emichi* Rogenhofer,1873, Verh. zool.-bot. Ges. Wien 23: 569-570. Syntypes ♂♀: [Türkei]: "am Gjaur Dag 8Amanus, 4000').

Range (in code): TR LB Bsa SY Cc AM IR Elb Ab Oru Mak Tbz Mey Ak Ar IL Pa 01 08 13 18 19 21 25 30 31 36 38 42 46 49 50 51 58 62 65 66 13A 13Ab 13Ax 13G 13Gf 13Gy 19C 21N 21Nh 30D 30Da 49F 51B 51Ba 58G 65F 65Fe 65Fp 65Fz 65Fr 65K 65Kl 65L 65Lb 65N 65Np6 65Nr2 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, 2♂, M. Kemal & A.Koçak leg.

76. *Euxoa (s.str.) conspicua* (Hübner,[1824])

Synonym(s): *conspicua* Hübner,[1824]; *agricola* Boisduval,1829; *lycarum* Herrich-Schäffer,1846; *abditata* De Joannis,1891; *#indistincta* Strand,1915; *osthelderi* Corti,1931; *complicata* Corti,1931. Original Reference: [*Noctua*] *conspicua* Hübner,[1824], Samml eur. Schmett. 4: pl. 154 figs. 718, 719. Type: Europe [date of publ. from Heppner (1982: 100)]. Range (in code): PT ES FR Co IT RO YU BG GR TR Arr GG Akh Smt Bjo Tbl Lag Cc AZ Kir Hkd RU Ro Kr St Kc Kb Nt Ich Ing Da Kyi MD UA BY MN KG Tks Ssn Na Tk Dj KK TrA UZ IR Ab Ak Mz Th Kd Ha Fa Ss Kh Ke Ha Mz Enz CN Ui Ku Li Kml AF Blh Arh Srb IQ Tkr LB Bsa PK IN Hp Sb SY CY Nv Ord Da Der Kus Oru Khy Mar Gls Bbu Sai Nar 01 03 04 05 06 13 18 23 24 25 30 33 36 38 42 44 45 46 50 51 58 60 62 65 66 70 71 75 76 01K 03E 04C 05A 06R 06Rb 06Rk 06Y 06Yb 13A 13Ab 13Ae 13Ax 13G 13Gü 13Gw 18F 25A 25C 25Ca 25R 30D 30Dc 36F 38C 38Cb 38G 38Ga 42R 42Rc 44I 45P 50G 50Ga 50Gb 50Gc 51B 51Ba 58G 58N 58R 60C 62G 65A 65Ab 65Aba 65D 65Df 65Dh 65Ds 65Du 65F 65Fa 65Fg 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 65L 65Lb 65N 65Np2 65Nm 66P 75E 76C

77. *Euxoa (s.str.) homicida* (Staudinger,1900)

Synonym(s): *homicida* Staudinger,1900; *#homicia* Hacker & Kautt,1999. Original Reference: *Agrotis homicida* Staudinger,1900, Dt. ent. Z., Iris 12: 363, Taf.vi, fig.7. Syntypes: [Türkei]: Zeitun [=Süleymanlı]; Amasia, Konia. Etymology: "Zur Erinnerung an den Massenmord der Armenier bei Zeitun so benannt". Range (in code): IT Si RO GR Cr TR Cc IR Kh Fa Ke Ha Ss Elb Kdv Dam Kdj Kd Lo Hz Th Mz Gls TM Kp AF Hr Gbh Arh Srb PK KK Ax CN Ui Kl Kno Ts KG Tk TrA TJ Pm 04 05 06 07 13 18 24 25 29 30 32 36 40 42 44 46 50 51 58 60 62 65 66 71 04C 04D 04Da 05A 05G 06Y 06Yb 07A 13A 13Ab 13Ax 13G 13Gü 13Gw 18F 18I 24L 25A 25C 25Ca 25R 29F 30D 30Da 30Db 32F 36D 36Dd 36F 40D 42D 42R 42Rb 42Rc 44E 46L 50G 50Ga 50Gb 50Gc 50Gd 51B 51Ba 58G 58N 58R 60C 62G 65D 65Df 65Fz 65G 65Ge 65B 65Bo 65Bx 65K 65Kl 65N 65Np2 65Nm 66P 68B 68H

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 3♂ 1♀, M. Kemal & A.Koçak leg.

78. *Fissipunctia corticea* (Esper,[1800])

Synonym(s): *#ypsillon* [Denis & Schiffermüller],1775; *ipsilon* Goeze,1781 nec Hufn.,1766; *corticea* Esper,[1800]; *fissipuncta* Haworth,1809; *upsilon* Curtis,1828; *plebeja* Staudinger,1888; *orenburgensis* Bartel,1902; *obertueri* Rothschild,1920; *glaisi* Lucas,1931 Original Reference: *Phalaena corticea* Esper,[1800], Die Schmett. 4: 463, Tab. 145 figs. 2,3. Range (in code): MA DZ Btina Sbd Abe PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR GG Tbl Smt Bjo Lag AZ Kir Cc CY IQ IR Ha Mz Elb Kd Snj Lo Gls Kh DK NO SE FI EE LV LT RU Ro Kr St Kb Ich Ing Kyi Or Sb At Us MD UA Lvv BY AF Balk UZ N-A 01 06 10 13 17 25 30 35 36 49 50 51 58 60 62 66 75 13A 13Ab 13Ax 30D 30Da 36F

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79. *Gortyna (Cervyna) cervago* Eversmann,1844

Synonym(s): *cervago* Eversmann,1844; *#argillago* Draudt,1936. Original Reference: *Gortyna cervago* Eversmann,1844, Bull. Soc. imp. Nat. Moscou 3: 594. Range (in code): RO RU Ro St Ich Da Ur UA TR Cc AM AZ TM CN Ui AF IR Elb Th Kdv UZ 04 06 13 25 36 44 58 62 65 69 04D 04Da 06E 06Ea 13A 13Ab 13Ax 36F 36Fb 65A 65Ai 65Am 65Am4 65D 65Df 65F 65Fa 65G 65Ge 65K 65Kk

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80. *Hadena (Anepia) perplexa* ([Denis & Schiffermüller],1775)

Synonym(s): *perplexa* [Denis & Schiffermüller],1775; *lepida* Esper,[1790] nec Cr.,[1779]; *carpophaga* Brahm,1791; *ochracea* Haworth,1809; *capsophila* Boisduval,1840; *nisus* Germar,[1842]; *repanda* Herrich-Schäffer,[1850]; *atlas* A.E.Prout,1929; *sicula* Draudt,1933 Original Reference: *Noctua perplexa* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 313. Type(s): [Austria]: Vienna district. Range (in code): MA DZ Cn PT ES An FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Sb At MD UA Cm BY KG At Sb KK CN Ui Ku TJ Pm Tk AF Pag Adr IR Kh Fa Sse Elb Th Kdj Plr Dam Ab Mak TM Kp JO LB Bsa IL Pa IQ JO PK AZ AM GG Cc TrA UZ Fe IN Ld Ro St Kb Nt Ing Da CY Kir Lag Nv Ord Khy BSA Sbd Ahr Hrh Btina Khh Ges Abe 01 04 05 06 07 11 13 14 16 18 20 24 25 29 30 32 33 35 36 42 46 47 48 49 50 51 58 60 63 65 75 01H 05A 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 58N 65D 65F 65Fa 65Fr 65L 65Lb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♂, M. Kemal & A.Koçak leg.

81. *Hadena (Enterpia) roseocandida* (Hacker,1996)

Synonym(s): *roseocandida* Hacker,1996 Original Reference: *Enterpia roseocandida* Hacker,1996, Esperiana 5: 596-597, figs. Holotype ♂: Türkei, Hakkari, 1400m Zap-Tal 23-26 vi

1990, leg. Kautt (coll. Hacker). Range (in code): TR Cc IR Elb Th Fa Lo Ha Mia 01 04 06 12 13 22 23 25 30 36 42 46 50 56 58 65 70 13A 13Ab 13Ax 30B 30Bc1 30Bx 36D 36Db 50G 56F 56Fm 58G 65A 65Ai 65D 65Df 65F 65Fp 65Fz 70C 70Ce 70Cf

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Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂ 1♀, M. Kemal & A.Koçak leg.

82. *Hadena (s.str.) albimacula* (Borkhausen,1792)

Synonym(s): *albimacula* Borkhausen,1792; *concinna* Hübner,[1803]; *conserta* Hübner,[1820]. Original Reference: *Phalaena albimacula* Borkhausen,1792, Naturg. eur. Schmett. 4: 149. Type(s): [Austria]: Wienergegend. Range (in code): MA DZ PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU HV MK BG GR TR Cc GG Mng AM DK NO SE FI EE LV LT RU Ro St Kc Nt Ing Da Sb At MD UA BY IR Elb Zj Fa Plr Dam Kz Yas Lo Kh TM Kp PK Gg AF IN TJ KK TrA Ax UZ LB Bsa YE 05 06 08 13 18 24 25 28 30 31 33 42 50 51 58 65 66 69 70 75 05A 13A 13Ab 13Ax 13G 13Gg 31K 31Ka 3Ka3 65B 65Bo 65Bx 65G 65Ge 70C 70Cf

83. *Hadena (s.str.) compta* ([Denis & Schiffermüller],1775)

Synonym(s): *compta* [Denis & Schiffermüller],1775; *viscaria* Guenée,1852; *galactina* Turati,1908. Original Reference: *Noctua compta* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 70. Type(s): [Austria]: Vienna district. Range (in code): DZ Ges PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR SY LB Bsa IL Pa AM GG Smt Akh Cc AZ IR Ab Khy Elb Fa Th Lo Zj Gh Kd Bne Sse Kh IQ DK NO SE FI EE LV LT RU Ro St Kb Kc Nt Ich Ing Da Sb At Am MD UA Lvv BY TM KK Kg T-S MN CN JP 03 04 05 06 08 13 16 18 24 25 29 30 32 33 36 42 46 49 50 51 56 58 60 62 63 65 66 76 05A 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 33G 33P 51B 51Ba 56F 56Fa 56Fq 58N 65A 65Ai 65Bx 65D 65Df 65F 65Fa 65Fp 65Fz 65Fr 65G 65Ge 76C

84. *Hadena (s.str.) gueneei* (Staudinger,1901)

Synonym(s): *gueneei* Staudinger,1901; *guenei* Hampson,1905 Original Reference: *Dianthoecia gueneei* Staudinger,1901, Cat. Lepid. Palaearkt. Faunengeb. 3(1): 163. Syntypes: Zypern, Taurus, Antiochia, Mardin, Bithynien. Lectotype ♀: Turkey: Mardin, designated by Hacker,1996 (NHMU). Range (in code): IT B-H HV MK GR CY TR IL Pa AZ AM Cc IR Lo Kh Elb Th Plr Kz Yas Fa IQ TM 01 03 04 06 08 12 13 16 18 24 25 30 31 33 36 42 46 47 50 56 58 65 66 71 80 06K 06Kb 06R 13A 13Ab 13Ax 13G 13Ge 16A 30B 30Bg 30Bh 30Bj1 36D 56F 56Fö 58N 65Bx 65D 65Dg 65F 65Fa 65Fr 65Fp 65Fz 65G 65Ge 65N 65Np6 65Nm

85. *Hadena (s.str.) magnolii* (Boisduval,1828)

Synonym(s): *magnolii* Boisduval,1828; *nummosa* Eversmann,1844. Original Reference: *Polia magnolii* Boisduval,1828, Eur. Lépid. Ind. Meth.: 73. Type(s): Gallia meridionalis. Range (in code): DZ Hmk PT ES An FR Co Si IT DE CH AT SK HU RO YU HV AL MK BG GR Cr TR TM IR By Yas Es Fa Lo Ha Elb Th Dam Kd Kh Cc GG Tbl Smt Bjo Mng AZ Kir AM LB Bsa UZ N-A KK KG RU Ro St Kb Nt Ing Da Sb At UA PK Ch Hu 01 04 05 06 09 13 14 18 21 24 25 29 32 33 36 42 44 46 49 50 51 56 58 65 66 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gs 13Gw 21L 21Lc 42R 44L 44Lc 56F 56Ff 56Fs 58R 65A 65Ai 65Am 65Am1 65Am4 65An 65At 65At5 65D 65Df 65Dg 65Du 65F 65Fr 65Fp 65Fz 65Fm 65K 65N 65Np 65Np1 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♀, M. Kemal & A.Koçak leg.

86. *Hadula (Calocestra) trifolii* (Hufnagel,1766)

Synonym(s): *trifolii* Hufnagel,1766; *chenopodii* [Denis & Schiffermüller],1775; *verna* Esper,[1787]; *saucia* Esper,[1790]; *infraina* Haworth,1809; *contribulis* Duponchel,1827; *farkasii* Treitschke,1835; *inquieta* Walker,1857; *albifusa* Walker,1857; *cinnamomina* Rothschild,1913; *taylori* Rothschild,1921 Original Reference: *Phalaena trifolii* Hufnagel,1766, Berl. Mag. 3 (3): 398. Type(s): [Germany]: Berlin. Range (in code): CL TN MA DZ LY NE PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG MK GR Cr TR CY IL LB SY IQ Agh Amr MN AF Gbh Pli Arh Ca PK Gg IN US CA DK NO SE FI EE LV LT RU MD UA BY IR Hz Ss Kh CN Ui Ku Yk Ti GG AM AZ Bak Cc JO MK Gh Elb Th Mz Kdj Dam Km Kd Ab Lo Es Ss Hz Bu Dlk KG Tk Tu Dj Aa TrA TM Kp TJ Pm Chr UZ Br N-A KK Skm Ax Na Ro Kr St Kc Kb Nt Ich Ing Kyi Da CV Az Cp Khy Snj Bne Mrv Gls Kh BSA Lgt Ktr Sét Gha Ela Ceg Bsk Saia Btina Khh Hmk DhM Hrh Perr Afl Ges Abe Sfr Tlm Onç Mri Lvv Ear Nbr Psu Cls 04 05 06 07 08 10 13 16 17 18 23 25 31 32 36 39 37 39 42 45 46 49 50 51 53 56 57 58 60 62 63 65 05A 06R 06Rb 10K 10Ka 13A 13Ab 13Ax 16A 56F 56Fa 65Bx 65F 65G 65Ge 65L 65Lb

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Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14-15 7 2015, 2♂ 1♀, M. Kemal & A.Koçak leg.

87. *Heliothis nubigera* Herrich-Schäffer,[1851]

Synonym(s): *nubigera* Herrich-Schäffer,[1851]; *perigeoides* Moore,1881; *deserta* Sohn-Rethel,1929; *minutier* Thurner,1938. Original Reference: *Heliothis nubigera* Herrich-Schäffer,[1851], Syst. Bearb. Schmett. Eur. 2:366. Type(s): Kleinasien. Range (in code): Cn DZ PT ES Mu FR Co Sa Si IT MT GB NL DE CH AT PL SK HU RO YU AL BG GR Cr TR CY FI RU Cc AZ Nv Ord Len Ro St Kb Nt Da MD UA BY IR Lo Hz Ss Kh Elb Th Dam Kdj Ak Mrd AF Hr Gbh Arh Dwe Srb Fz LB Bei Bsa IN Hp Dlh IQ Agh Amr Mj Dy SO IL Pa SY Hf JO Sn TM YE

Ad SO Kp Gls Bsk Khh BSa Ktr Onç Gtt Gha Abe Sbd Sfr Saia Agi Ges Ah Ajj 01 04 07 10 13 18 20 25 31 33 35 42 44 46 47 50 51 56 58 65 76 07C 13A 13Ab 13Ax 31K 31Ka 31Ka3 31Ka7 44L 44Lc 56F 56F1 56Fb 56Fm 65A 65Am 65Am1 65Bx 65G 65Ge 65N 65Np 65Np1 65Nm 76C

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Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 10 6 2015, 1♀, diurnal, M. Kemal & A.Koçak leg.

88. *Hypena munitalis* Mann, 1861

Synonym(s): *munitalis* Mann, 1861 Original Reference: *Hypena munitalis* Mann, 1861, Wien. ent. Monatschr. 5: 158. Type ♂: [Türkei]: Amasia. Range (in code): BG MK GR TR GG Smt Bjo Akh Cc AM RU Kr IL Pa LB Bei 01 05 06 07 08 12 13 21 24 25 32 33 42 44 49 50 51 56 58 65 69 73 05A 06R 06Ra 06Rm 13A 13Ab 13Ax 13G 13Gg 13Gü 13Gw 21L 21Lc 32A 42B 42Bb 44E 44Eh 44L 44Lc 49E 49Ea 56C 56Ca 56F 56Fo 56Fs 56Fs1 56Fj 56Fc 56Fv 56Fq 56Fö 56Fm 56F3 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65F 65Fm 65Fp 65Fr 65Fz 65K 65N 65Nc 65Kp 65Kl 73A 73Ad 73Ad2

89. *Lasionycta draudti* (F. Wagner, 1936)

Synonym(s): *draudti* F. Wagner, 1936 Original Reference: *Polia (Dianthoecia) draudti* F. Wagner, 1936, Z. Öster. ent. Ver. 27: 75. Syntypes: N-Iran, Demavend, Kendevan Pass (LNK). Range (in code): TR IR Elb Th Dam Mz Kdv Kz Yas AM Cc RU Da 04 12 13 24 25 30 36 60 65 75 76 04D 04Da 04I 13A 13Ab 13Ax 25C 25Ca 30B 30Bl 36E 65Bx 65G 65Ge 76B

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90. *Mesolia furuncula* ([Denis & Schiffermüller], 1775)

Synonym(s): *furuncula* [Denis & Schiffermüller], 1775; *spoliatricula* [Denis & Schiffermüller], 1775; *bicoloria* Villers, 1789; *vinctuncula* Hübner, [1803]; *humeralis* Haworth, 1809; *terminalis* Haworth, 1809; *rufuncula* Haworth, 1809 Original Reference: *Noctua furuncula* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]: Vienna district. Range (in code): DZ Abe Dhm Mii TN PT ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR Cr TR AZ Zu Tlh AM GG Cc AZ Kir DK NO SE FI EE LV LT RU Ro Kb Ing Da MD UA Lvv BY AF IR LB Bei CN 13 56 61 65 76 13A 13Ab 13Ax 13B 13G 13Gü 13Gw 56F 56Fs 61K 61Ka 65F 65Fp 65Fz 65L 65Lb 76C

91. *Mythimna (Aletia) l-album* (Linnaeus, 1767)

Synonym(s): *l-album* Linnaeus, 1767; *penicillata* Moore, 1881 Original Reference: *Phalaena l-album* Linnaeus, 1767, Syst. Nat. (Edn. 12): 850. Type(s): [Europa]. Range (in code): MA DZ TN PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AZ AM Cc DK NO SE LV RU Ur MD UA BY IR Fa Ke Lo Es Ha Ss Gh Elb Th Dam Kdj Ab Kz Yas AF Gbh PK IN Pj Sml Dlh Hp Kul Up Bhi SI NP CY IQ LB Bei Bsa IL Pa KK KG CN UZ Lvv Tk Dj Ax N-A Ro St Kr Kb Nt Ich Da Thu Smt Bjo Lag Kir Nv Ord Oru Sdt Kd Bne Gls Kh Agi Anna Ges Lgt Blid Bsk Btina Lbs Khh Dhm Prr Abe Sbd Afl BSa Hrh Psu Gg Txl Abb Nar Sai 05 06 07 08 10 12 13 16 17 18 21 25 30 31 32 33 34 36 38 39 42 44 45 46 49 50 51 56 58 61 62 63 65 69 80 05A 06R 06Rq 06Y 06Yb 08H 08Ha 13A 13Ab 13Ax 13B 13C 13Cd 13G 13Gg 13Gü 13Gs 13Gw 16A 21N 21Nb 30D 30Dt 30Dx 31K 31Ka 31Ka3 33G 36D 36Db 36F 36Fb 38H 38Hc 44E 44Eh 44L 44Lc 49E 49Ea 56F 56Fo 56Fb 56Fö 56Fv 56Fa 56Fm 56Fq 56F1 58G 61K 61Ka 62G 62Gb 65A 65Ai 65B 65Bo 65Bx 65D 65Df 65Ds 65Dv 65F 65Fg 65Kr 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 65N 65Nc 65Nc4 65Np7 65Nm

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂, M. Kemal & A.Koçak leg.

92. *Mythimna (Aletia) vitellina* (Hübner, [1808])

Synonym(s): *vitellina* Hübner, [1808]; *#vitellena* Lederer, 1870; *decolorata* Dannehl, 1929; *saturation* Dannehl, 1929; *griseus* Dannehl, 1929. Original Reference: *Noctua vitellina* Hübner, [1808], Samml. eur. Schmett., Noct. 2: Taf. 81, fig. 379. Type: [Europa]. Range (in code): Cn MA MR DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ Brs Ry Rww Dia Agh DK RU At MD UA BY PK Ch NP IN Pj Kul CN IR Lo Es Ha Kh Fa Mz Elb Th Kdj AF Hr UZ Fe KK Ik TM KG TJ CY AZ Bak GG Cc LB Bsa SY JO IL Pa T-A Kp N-A Br Ro Kr St Kc Kb Nt Ing Ich Da Tbl Smt Bjo Bku Kir Gls Agi Blid Khh Gue Ges Btina BSa Anna Orn Abe Sfr Sbd Dhm Sét Hrh Hmk Lvv 01 03 05 06 07 08 09 13 16 17 18 21 22 23 24 25 27 28 29 30 31 33 34 35 36 37 39 42 44 45 46 48 49 50 51 52 56 58 62 63 65 73 75 76 80 05A 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 07B 07Bb 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 30D 30Dx 33G 36D 36Db 36F 36Fb 44E 44Eh 44L 44Lc 46G 46Gf 48L 49F 49Fb 56E 56Eh 56F 56Fa 56Fb 56Fh 56Fo 56Fv 56F3 56F1 56Fs 56Fc 56Fy 56Fe 58G 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65D 65Df 65Dl 65Dlc 65Ds 65Du 65Dv 65F 65Fa 65Fb 65Fc 65Fd 65Fg 65F1 65Fj 65Fm 65Fr 65Fp 65Fu 65Fz 65G 65Ge 65K 65N 65Nc 65Nc4 65Kd 65Kg 65Kl 65Kp 65Ku 65L 65Lb 65N 65Nm 65Np 65Np1 65Np8 73D 73Db 75F 75Fe 76A 76Ac 76B 76Bb

93. *Noctua (Lampra) fimbriata* (Schreber, 1759)

Synonym(s): *fimbriata* Schreber, 1759; *domiduca* Hufnagel, 1766; *fimbria* Linnaeus, 1767; *solani* Fabricius, 1787. Original Reference: *Phalaena fimbriata* Schreber, 1759, Nova Species Insectorum: 13, fig. 9. Type(s): [Deutschland]: Halae [=Halle]. Range (in code): DZ Clo Dhm TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Ro Nov Kr St Kb Kc Nt Ich Ing Da MD UA Ode Cm Lvv BY AM GG Smt Bjo AZ Kir Cc IR Gls 03 05 06 07 08 12 13 14 16 18 25 29 30 39 42 43 46

49 51 56 59 60 62 65 73 80 03H 05A 06R 06Rb 08H 13A 13Ab 13Ax 13C 13Cf 13G 13Gg 16A 25T 30B 30Bd 30Bx 42B 42D 49E 49Ea 56F 56F6 56F1 56Fq 56Fs 56Fm 56Fy 59D 65A 65Ai 65Ac 65Ac3 65Ab 65Aba 65D 73C 73Cd

94. *Noctua (Latanocua) orbona* (Hufnagel,1766)

Synonym (s): *orbona* Hufnagel,1766; *subsequa* [Denis & Schiffermüller],1775; *caroni* Lempke,1964.

Original Reference: *Phalaena orbona* Hufnagel,1766, Berl. Mag. 3(3): 304. Type(s): [Germany]: Berlin. Range (in code): MA DZ TN LY PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR CY TR DK NO SE FI EE LV LT RU Ro Kr St Kb Nt Ich Ing Kyi Da MD UA Cm BY IR Lo By Yas Zj Elb Th Kdj Kd LB Bsa SY IQ GG Smt Akh Bjo Tbl AZ Hkd Kir Nv Ord AM Cc TM UZ N-A AF Kh LU KG Uk KK Osh TJ Pm Chr Tbl Smt Bjo Lag Kir Nv Ord Bne Ges Clo PK Abb 01 03 04 05 06 07 08 13 14 16 17 18 21 23 25 27 28 30 31 36 38 39 42 43 46 50 51 56 58 59 60 62 63 65 66 70 01L 01La 05A 06E 06Ea 06R 06Ra 06Rb 06Rd 06Rq 06Y 06Yb 13A 13Ab 13Ax 13G 13Gg 13Gf 13Gü 13Gw 14I 16A 21L 30D 30Dt 36D 36Db 42B 42D 50G 50Ga 50Gd 56F 56Fb 56Fq 56F3 56Fv 56Fa 56Fç 56Fj 58G 59D 63D 65A 65Ac 65Ac3 65An 65At 65At5 65Ab 65Aba 65Bx 65D 65Df 65Du 65Di 65F 65Fa 65Fb 65Fg 65Fr 65Fp 65Fz 65G 65Ge 65N 65Np7 65Nm 70C 70Cb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂, M. Kemal & A.Koçak leg.

95. *Nola subchlamydula* Staudinger,1870

Synonym(s): *subchlamydula* Staudinger,1870; *lathonialis* Millière,1872; *kruegeri* Turati,1911; *praetextula* Chrétien,1923; *infantula* Kitt,1926; *derasa* Zerny,1933; *albidula* Zerny,1934 Original Reference: *Nola subchlamydula* Staudinger,1870, Horae Soc. ent. ross. 7: 107-109, Tab.1 figs.6,7. Syntypes ♂♀: Griechenland: Attica. Range (in code): MA DZ AfL Lbs Hrh TN ES Mu FR Co Sa IT BE DE Bw CH AT YU BG GR Cr Sms TR LB Bei Bsa IR Fa IQ Cc RU Ao Da UA Cm 05 06 07 13? 25 31 33 48 56 06R 13A? 13Ab? 13Ax? 25N 25Na 31K 31Ka 48G 48Gb 48L 56F 56F1

96. *Odice arcuinna* (Hübner,1790)

Synonym(s): *arcuinna* Hübner,1790; *inamoena* Hübner,[1803]. Original Reference: *Phalaena arcuinna* Hübner,1790, Beitr. Gesch. Schmett. 2(4): 93, Taf.2, fig.O. Range (in code): IT AT CZ SK HU RO YU BG GR Cr TR RU Cc AM AZ Bak Kir Ro Nt Da IR Ke Mz Elb Dam Th KG Tu Tk Dj KK Skm KK CN MN KP KR 05 06 10 13 14 16 17 20 25 32 33 35 36 38 42 51 56 58 65 66 76 80 05A 13A 13Ab 13Ax 13G 13Gg 16A 56F 56Fq 58G 58N 65B 65Bo 65Bx 65G 65Ge 65K 65Kd 65Kg 65Ks 65N 65Nr2 65Nm 76C

97. *Oligia latruncula* ([Denis & Schiffermüller],1775) (Fig. 36)

Synonym(s): *latruncula* [Denis & Schiffermüller],1775; *aerata* Esper,1790; *meretricula* Borkhausen,1792; *aethiops* Haworth,1809 Original Reference: *Noctua latruncula* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]: Vienna district. Range (in code): PT ES FR Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR AM Eri DK NO SE FI EE LV LT RU Ro Kr St Nt Ich Ing Da MD UA Lvv BY LB Bsa IR Mz Cc GG SY 06 13 17 25 32 33 35 39 41 42 43 46 50 65 66 06R 06Ra 13A 13Ab 13Ax 13G 13Gg 13Gf 13Gy 13Gü 13Gw 41A 43M 65F 65Fg 65Fr 65Fm 65Fp 65Fz 65K 65Kl 65L 65Lb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♀, GP2652♀. M. Kemal & A.Koçak leg.

98. *Oria musculosa* (Hübner,[1808])

Synonym(s): *musculosa* Hübner,[1808]; *laeta* Alpheraky,1889. Original Reference: *Noctua musculosa* Hübner,[1808], Samml. eur. Schmett. 4, Noctuae: Tab.78 fig.363. Type(s): Europa. Range (in code): Cn MA DZ Hrh Hmk Agi Btina Tun Ges Gue Khk Ktr Abe Orn Sbd BSA Dje TN EG PT ES FR Sa Si IT MT GB BE DE CH? AT PL CZ SK HU RO YU AL BG GR Cr CY Rd TR IR Fa Shr Elb Th TM DK RU Cc Ro Kr St Ich Da MD UA BY AF Hr TJ Pm IQ Agh LB IL Hf Js Pa SY Dms JO 05 06 07 13 15 18 19 22 25 26 32 33 35 38 42 45 46 50 51 55 58 65 66 70 05A 06R 06Rb 13A 13Ab 13Ax 33G 35L 55F 58N 65K 65Ké 65Kg 70C 70Ce

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, 1♂, M. Kemal & A.Koçak leg.

99. *Schinia cardui* (Hübner,1790)

Synonym(s): *cardui* Hübner,1790; *purpurata* Staudinger,1901; *majellana* Dannehl,1933. Original Reference: *Phalaena cardui* Hübner,1790, Beitr. Gesch. Schmett. 2(4): 84,127, Taf.4, fig.B. Range (in code): ES FR IT DE CH AT CZ SK HU RO YU AL BG TR AZ Kir Cc RU Ro 06 08 13 21 36 58 62 06K 06Kc 08H 13A 13Ac 13Ax

New to the fauna of Bitlis Province!

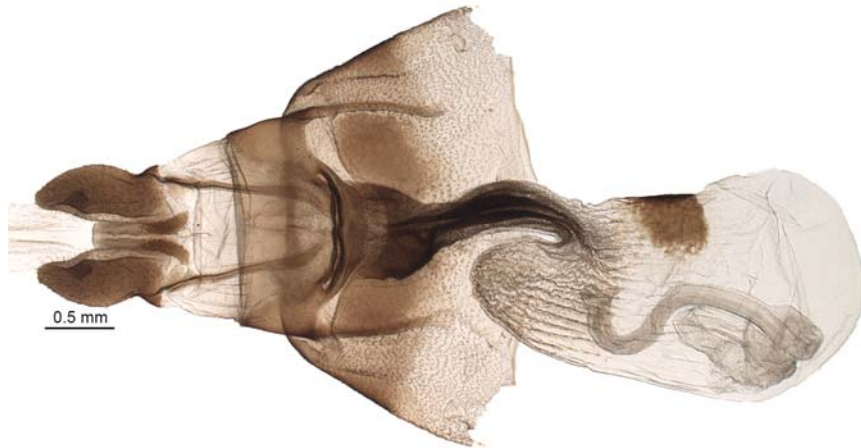


Fig. 36 - *Oligia latruncula*. Female genitalia. GP2652. Bitlis Adilcevaz, Süphan Volcano, Aygır. M. Kemal (Cesa)

100. *Sideridis (Luteohadena) luteago* ([Denis & Schiffermüller],1775)

Synonym(s): *luteago* [Denis & Schiffermüller],1775; *brunneago* Esper,[1804]; *nigrescens* Wagner,1926 (*praeocc.*); *ottomana* Koçak,1990. Original Reference: *Noctua luteago* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 86. Type(s): [Austria]: Vienna district. Range (in code): DZ Hrh FR AD Co Si IT MT GB DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd FI LV LT RU Ro Kr St Kb Nt Ich Ing Da MD UA Lvv BY TR IR Fa Kh Elb Th IQ LB Bsa SY GG Tbl Bjo Smt Kir Cc AZ AM KK KG 04 05 06 07 08 11 13 18 21 24 25 29 30 33 36 37 42 49 50 58 60 61 65 73 05A 11A 13A 13Ab 13Ax 13G 13Gg 13Gw 13Gs 50G 65A 65Am2 65Am4 65An 65Ai 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65Dh 65F 65Fç 65Fg 65Fm 65Fr 65Fz 65G 65Ge 65L 65Lb 65N 65Np6 65Nm 73A 73Ab

101. *Spodoptera exiguum* (Hübner,[1808])

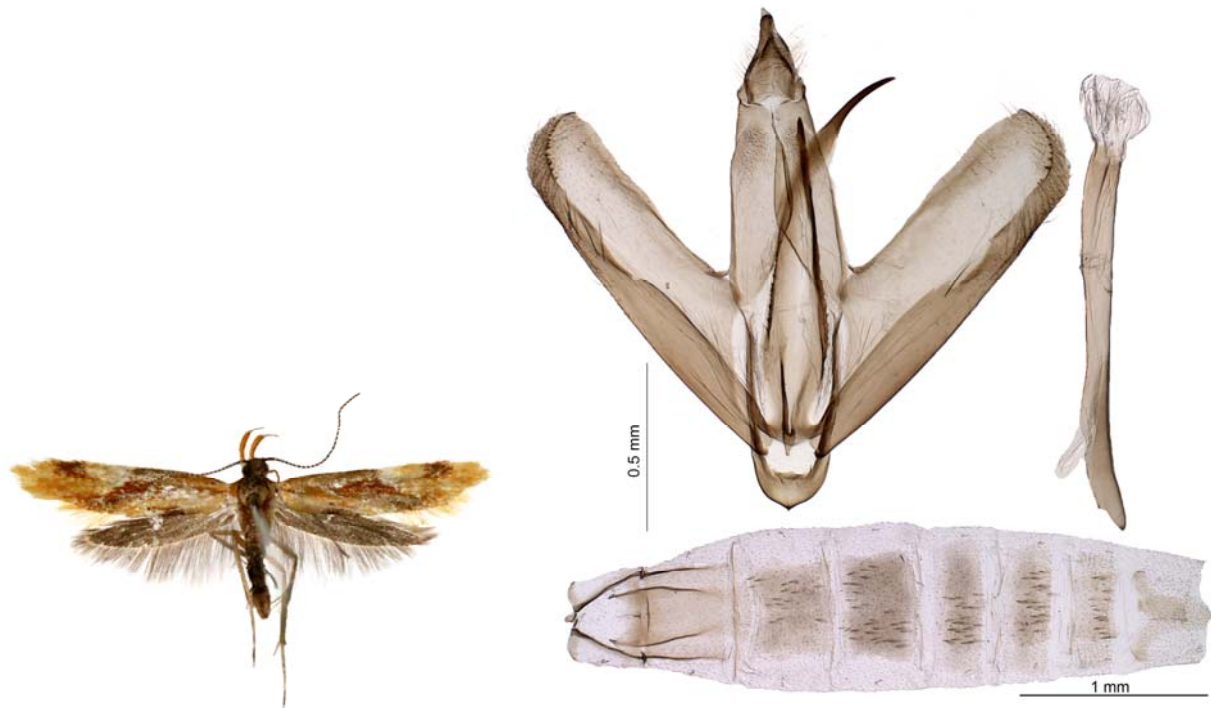
Synonym(s): *exigua* Hübner,[1808]; *fulgens* Geyer,[1832]; *pygmaea* Rambur,1834; *junceti* Zeller,1847; *caradrinoides* Walker,1856; *flavimaculata* Harvey,1876; *venosa* Butler,1880; *sebhana* Austaut,1880; *antipodea* W.Warren,1914; *protector* De Laever,1985. Original Reference: *Noctua exigua* Hübner,[1808], Samml. eur. Schmett. Noct.2, Taf.78 fig.362. Type(s): Europa. Range (in code): MA DZ TN PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AZ AM Cc DK NO SE FI EE LV LT RU MD UA BY CY LB Bsa IQ Agh Bgd Qr Amr KW PK Bl Qu AF Hr Gbh Srb Arh Dwe Kab ZA Gau Pre Tva Nta Kzu Dbn Est ZW IL Hf Rd Pa IR TH Fa Lo By Kz Yas Ke Hz B-A Ss Ha Kh Ab Oru Mz Elb Dam Kdj Kh Gh Bu Dlk Ro St Kb Nt Ich Ing Da ET ET24 YE Ad CV Az Md Cn Hw CA US Cp Rw Ges Ktr Agi Lgt BSA Gha Gtt Omy Ogl Gle Khh Blid Sét Abe Bsk Perr Sfr Btina Hmk DhM Hrh Onç Ah Ajj 01 05 07 08 13 14 16 17 18 21 25 27 29 30 31 32 33 36 38 42 43 44 45 46 49 50 51 52 56 58 63 64 65 69 05A 13A 13Ab 13Ax 13B 16A 21A 21N 21Nc 33G 44I 44Ic 49F 49Fb 56F 56Fb 56Fö 56Fç 56Fv 56Fc 56Fa 56Fs 56Fm 58N 63D 65A 65An 65Am 65Am2 65D 65Df 65Dg 65F1 65Fz 65K 65Ku 65Kp 65L 65Lb 65Nc 65N 65Nc4 65Np1 65Np5 65Nm

Oecophoridae

102. *Epicallima formosella* ([Denis & Schiffermüller],1775) (Figs. 37, 38)

Synonym(s): *formosella* [Denis & Schiffermüller],1775; *flammella* Duponchel,1842. Original Reference: *Tinea formosella* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 140. Type(s): [Austria]: Vienna district. Range (in code): DZ Lbs PT ES FR Sa Si IT MT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Rd TR CY GG Btm Lag Sok AZ Len AM Eri Cc IL Pa Hf SE EE LV LT RU MD UA BY KK KG US Nje Ny 05 06 12 13 16 33 46 65 71 76 05A 06R 12E 12Ec 12Ed 13A 13Ab 13Ax 16A 65N 65Np 65Nm 71D 76C Prep. no: GP2628♂.

This record is new to the fauna of Bitlis Province.



Figs. 37, 38 - *Epicallima formosella*. Upperside of male (left). Male genitalia and abdominal skin. GP2628 (right). Bitlis Province, Adilcevaz, Süphan Volcano. Aygır 1970m 14 7 2015. M. Kemal (Cesa)

103. *Pleurota (s.str.) pyropella* ([Denis & Schiffermüller], 1775) (Figs. 39-44)

Synonym(s): *pyropella* [Denis & Schiffermüller], 1775 Original Reference: *Tinea pyropella* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 137. Type(s): [Austria]: Vienna district. Range (in code): DZ PT ES FR Co Sa Si IT DE CH AT CZ SK HU RO YU AL BG GR Cr TR Cc LB Bsa CY RU MD UA BY o5 o6 10 13 16 21 31 40 42 44 46 51 56 65 73 75 o5A o6R o6Rb o6Rd 10K 10Ka 13A 13Ab 13Ax 16A 21L 21Lf 31M 56Dh 56Dg 65D 65N 65Np2 65Nm 73D 73Df 73Dfc 73E 73Eb 73H 73Hb 75D GP2244♂ GP2245♀ GP2246♂ GP2619♂ GP2620♂ GP2621♂ GP2622♂.

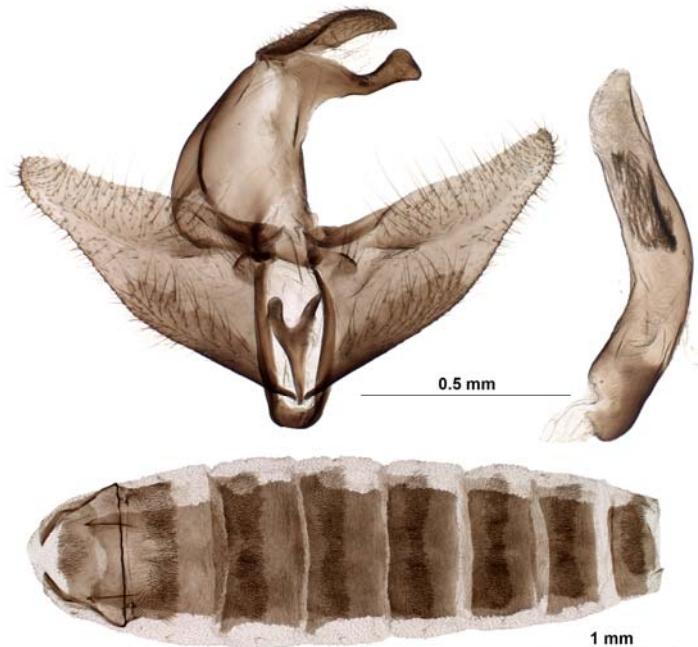
This record is new to the fauna of Bitlis Province.



Figs. 39, 40 - *Pleurota pyropella*. Female. GP2618 (left), male GP2615 (right). Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 10 6 2015, M. Kemal (Cesa)



Figs. 41, 42 - *Pleurota pyropella*. Female genitalia and abdominal skin. GP2618. M. Kemal (Cesa)



Figs. 43, 44 - *Pleurota pyropella*. Male genitalia and abdominal skin. GP2615. M. Kemal (Cesa)

Pterophoridae

Pterophoridae

***Marasmarchini* Tutt, 1906**

=*Exelastini* Gielis, 2000

For the synonymy, see Kemal & Koçak (2017b).

104. *Marasmarcha ehrenbergiana* (Meyrick, 1886)

Bionomy and the faunistic record of this species were published by the authors (Kemal & Koçak, 2017b).

Pyalidae

105. *Acritonia comeella* Amsel, 1954 (Fig. 45)

Synonym(s): *comeella* Amsel, 1954 Original Reference: *Acritonia comeella* Amsel, 1954, Ark. Zool. (2) 6: 271, figs. 61, 199. Holotype ♂: Iran, Fars, Comé (SMNH). Range (in code): IR Fa TR 13 65 73 13A 13Ab 13Ax 13F 13F38 65D 65Df 73A 73Ad 73Ad2 GP2239♂

This nocturnal species was reported by the authors from Şırnak Province (Kemal & Koçak, 2015). The present record is new to Adilcevaz district.

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 10 6 2015, GP2239♂. M. Kemal & A.Koçak leg. (Cesa).

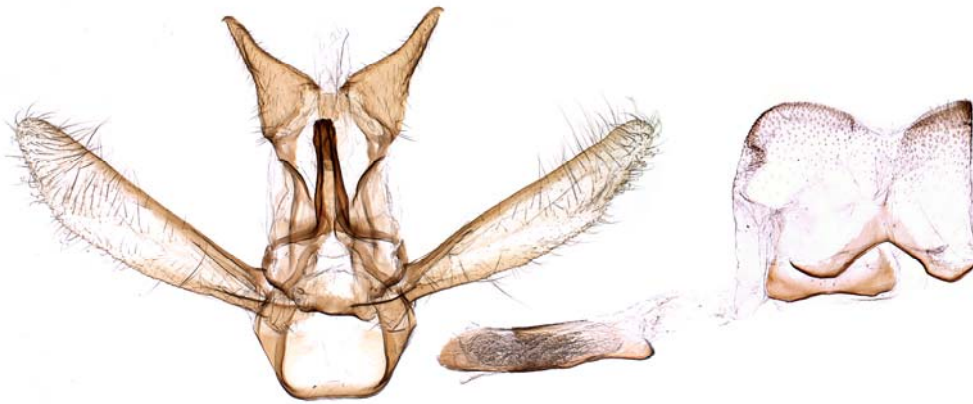


Fig. 45 - *Acritonia comeella*, male genitalia. GP2239. Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

106. *Acrobasis tumidana* ([Denis & Schiffermüller],1775)

Synonym(s): *tumidana* [Denis & Schiffermüller],1775; *tumidalis* Hübner,[1825]; *rubrotibiella* Fischer v. Roeslerstamm,1839. Original Reference: *Tortrix tumidana* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 103. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): ES FR Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE LT RU MD UA BY TR IR Kd Lo 12 13 16 42 46 56 65 80 12E 12Ed 13A 13Ab 13Ax 13F 16A 56F 56F1 65A 65Ai

107. *Arsissa divaricella* (Ragonot,1887) (Fig. 46)

Synonym(s): *divaricella* Ragonot,1887; *#aurantiacella* Caradja,1910; *velocella* Toll,1948; *firusella* Amsel,1961 Original Reference: *Bradyrrhoa divaricella* Ragonot,1887, Annls Soc. ent. Fr. (6) 7: 240. Type (s): [Usbekistan]: Samarkand (MNHNP). Range (in code): UZ Smk TR Cc GG IR Fa Sse Com Ha Ss Kh Th Elb Kdj Nss Km Kd Lo Zj SA SA63 01 12 13 31 46 65 76 12A 12Ab 13A 13Ab 13Ax 13F 65A 65Am 65Am4 65D 65Df 65Dh 65Dv 65F 65Fp 65Fz 65N 65Nc 65Nc4

108. *Asalebria (Exophora) florella* (Mann,1862)

Synonym(s): *florella* Mann,1862; *chiclanensis* Staudinger,1870; *syriella* Amsel,1954; *joesti* Amsel,1954; *vartianae* Roesler,1969 Original Reference: *Nephopteryx florella* Mann,1862, Wien. ent. Monatschr. 6: 391, Taf.3 fig.10. Lectotype ♂: [Croatia: Dalmatia]: "Spalato" [Split] designated by Roesler,1993, Microlepid. Palaearct. 8: 183 (NHMW). Range (in code): MA DZ TN Gf PT ES Grn Mu An Sa Co IT FR DE RU RO BG HV DI MK AL GR Kf Tyg TR LB Bsa TR SY Ltk IL Hf Pa Cr 06 09 13 16 31 42 46 65 13A 13Ab 13Ax 16A 31M 65D 65Dv 65F 65Fp 65Fz 65N 65Nc 65Nc4

109. *Bostra obsoletalis* (Mann,1864)

Synonym(s): *obsoletalis* Mann,1864; *tunesialis* Caradja,1916; *palaestinensis* Amsel,1935; *buckwelli* Lucas,1954 Original Reference: *Stemmatophora obsoletalis* Mann,1864, Wien. ent. Monatschr. 8: 179 Taf.4 fig.5 Syntypes 2♂ 1♀: [Türkei]: Brussa [Bursa]. Range (in code): Cn DZ Cst Orn TN MA PT ES FR Co Sa Si IT MT YU BG GR CY TR IL Pa IR Elb Mz Kh 13 16 46 13A 13Ab 13Ax 13F 16A

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 15 7 2015, 1♂, M. Kemal & A.Koçak leg.



Figs. 46, 47 - *Arsisia divaricella* (left), *Bradyrrhoa gilveolella* (right). Both nocturnal and from Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 15 7 2015, M. Kemal (Cesa)



Figs. 48, 49 - *Myrllaea albistrigata* (left), *Tegostoma perlepidalis* (right). Both nocturnal and from Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 16 7 2015, M. Kemal (Cesa)

110. *Bradyrrhoa (s.str.) gilveolella* (Treitschke,1833) (Fig. 47)

Synonym(s): *gilveolella* Treitschke,1833 Original Reference: *Phycis gilveolella* Treitschke,1833, Schmett. Eur. 9 (2): 271-272. Type(s): [Romania, Banat, Timișoara]. "gegend von Temeswar". Range (in code): Si RO YU AL MK BG GR TR IR Ab Cc AM Eri RU UA Cm KK Na AU 01 05 06 13 16 21 22 23 29 30 31 44 51 38 42 44 46 51 56 58 65 71 77 05A 13A 13Ab 13Ac 13Ag 13Ax 13F 13F6 13F01 13F11 13F38 13F41 16A 21N 21Nb 30B 30Bc1 30Bx 31M 44E 44Eh 44I 44Ic 44L 44Lc 56F 56F1 65A 65Ac 65Ac3 65Am 65Am4 65D 65Df 65Dh 65F 65Fp 65Fz 65N 65Np2 65Np5 65Nr2 65Nm

111. *Chrysocrambus linetellus* (Fabricius,1781)

Synonym(s): *linetellus* Fabricius,1781; *cassentiniellus* Herrich-Schäffer,[1848]; *distinctus* Müller-Rutz,1920; *chrysocrossis* Meyrick,1936; *#marioni* Dufrane,1960. Original Reference: *Tinea linetella* Fabricius,1781, Spec. Ins.2: 291. Lectotype ♂: Italia: Piemont (Bleszynski,1965: 344). Range (in code): ES FR Co Sa Si IT GB CH AT SK HU RO YU AL BG GR Cr TR SY JO IR Gh Tgo LB IQ CY Rd UZ Br CN Ui Cc AZ Len 01 04 06 13 33 42 44 50 53 56 58 65 76 80 06R 13A 13Ab 13Ax 13B 13Bd 13G 13Ge1 13Gf 13F 13F6 44L 44Lc 56F 56F1 56Fs 56Fs1 65A 65Ai 65Au 65B 65Bo 65Bx 65D 65K 65Kl 65N 65Np2 65Nm 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♂, M. Kemal & A.Koçak leg.

112. *Crambus perlellus* (Scopoli,1763)

Synonym(s): *perlellus* Scopoli,1763; *dealbellus* Thunberg,1788; *warringtonellus* Stainton,1849. Original Reference: *Phalaena perlella* Scopoli,1763, Entomologia Carniolica: 243. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): MA PT ES FR Sa IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR DK NO SE FI EE LV LT RU MD UA BY TR GG AM Cc AZ KG Uk IR Shh Plr Dam KK AF Ch CN Ui Kml US 01 14 13 16 24 25 42 51 58 65 69 76 13A 13Ab 13Ax 16A 65B 65Bo 65Bx 65D 65Dc1 65Fz

New to the fauna of Bitlis Province!

113. *Cynaeda (s.str.) gigantea* (Staudinger,1879)

Synonym(s): *#gigantea* Wocke,1871; *gigantea* Staudinger,1879 Original Reference: *Odontia dentalis* v. *gigantea* Staudinger,1879, Horae Soc. ent. ross. 15: 165-166. Syntypes: [Türkei]: Amasia. Range (in code): FR CH HU YU GR Cr TR IQ Hjo Ssa IR Fa Shr Com Sse GlS IL Pa LB Bsa AF Slg Pnj Pag Adr KG Uk 05 06 08 13 14 21 23 38 42 44 46 50 56 58 65 76 05A 06K 06Kb 06R 06Rk 13A 13Ab 13Ax 13F 13F6 14B 14Bb 21L 21Lc 38H 38Hc 44E 44Eh 50G 56F 56F1 56Fb 58G 65A 65Ac 65Ac3 65Am 65Am1 65D 65Df 65Dt 65Du 65Fz 65N 65Np1 65Nr4 65Nm 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 10♂♀, M. Kemal & A.Koçak leg.

114. *Ecpyrrhorhoe diffusalis* (Guenée,1854)

Synonym(s): *carnealis* Dup.,1831 nec Treit.1829; *diffusalis* Guenée,1854; *affusalis* Guenée,1854; *tenuialis* Mann,1862. Original Reference: *Botys diffusalis* Guenée,1854, [in] Boisduval & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: 340. Syntypes 2♂ 3♀: "Espagne, France mer., env. Nîmes et de Montpellier" (coll. Guenée & Lefebvre). Range (in code): Cn MA TN ES FR IT CH HU RO YU HV AL BG GR IL Pa Hf TR IR Fa Shr Com Ss Th Kdj Ha Mz LB Bsa AF Pic Kab Srb Bsg Pag PK Cp UA Lvv Cc GG Tbl Bjo AZ Kir Nv Ord AE IN 01 05 06 13 16 21 31 38 42 44 46 47 56 60 65 71 73 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 31K 31Ka 31Ka3 31M 44I 44Ic 44L 44Lc 46G 46Gf 56F 56F1 65A 65Am 65Am1 65Am2 65Am4 65Ab 65Aba 65D 65Df 65Dg 65Dv 65Dt 65Ds 65F 65Fç 65Fp 65Fz 65N 65Np6 65Nm 73A 73Ad 73Ad2

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 1♂, M. Kemal & A.Koçak leg.

115. *Epiepischnia pseudolydella* Amsel,1954 (Figs. 50-52)

Synonym(s): *pseudolydella* Amsel,1954 Original Reference: *Epiepischnia pseudolydella* Amsel,1954, Ark. Zool. 6 (16): 308-309, Pls., figs. Holotype ♂: Iran: [Fars]: Sine-Sefid. Range (in code): TR IQ Shq Hjo IR Fa Sse Elb Th Kdj 06 13 46 65 71 06R 13A 13Ab 13Ax 13F 13F6 65A 65Am 65Am3 65At 65At5 65D 65F 65Fp 65Fz GP22308♂

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 11 6 2015, 30♂♀, M. Kemal & A.Koçak leg.



Figs. 50-52 - *Epiepischnia pseudolydella*. Upperside of male, GP2308 (left). Male genitalia, coremata, and basal abdominal segments with tympanal organ. Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

116. *Ephestia (Anagasta) welseriella* (Zeller,1848)

Synonym(s): *welseriella* Zeller, 1848; *modestella* Lederer,1863; *tephrinella* Lederer,1870; *rhenanella* Fuchs,1877; *suffusella* Ragonot,1901; *immodestella* Rebel,1916; *superbella* Lucas,1954; *capricola* Hampson,1927. Original Reference: *Myelois welseriella* Zeller,1848, Isis 1848: 673. Type(s): Ragusa. Range (in code): LY Cy DZ MA TN Gf PT ES Mu FR Co Sa Si IT MT DE CH AT HU RO YU HV MK AL BG GR Cr TR IL Hf Pa LB Bsa Bei RU Cc GG AM AZ IR Mz Elb 05 06 13 16 42 44 45 46 65 71 05A 13A 13Ab 13Ax 13F 13F35 16A 44L 44Lc 65A 65Am 65Am1 65D 65Df

117. *Etiella zinckenella* (Treitschke,1832)

Synonym(s): *marginella* Fabricius,1781 nec Den. & Schiff.,1775; *zinckenella* Treitschke,1832; *etiella* Treitschke,1835; *majorellus* Costa,1836; *colonnellus* Costa,1836; *dymnusalis* Walker,1859; *heraldella* Guenée,1862; *anticalis* Walker,1863; *indicatalis* Walker,1863; *hastiferella* Walker,1866; *decipiens* Staudinger,1870; *spartiella* Rondani,1876; *sabulinus* Butler,1879; *madagascariensis* Saalmüller,1880; *schisticolor* Zeller,1881; *villosella*

Hulst,1887; *rubribasella* Hulst,1890; *#tiella* Pinhey,1975. Original Reference: *Phycis zinckenella* Treitschke,1832, [in] Ochseneheimer, Schmett. Eur. 9(1): 201. Lectotype ♀: "Sizilien" (TMB). Range (in code): PT ES FR Co Sa Si IT MT GB NL LU DE CH AT CZ SK HU RO YU AL BG GR TR DK RU MD UA BY IL JO LB IQ IR YE Sk CY EG KK Ax MG AF PK IN LK BT NP TH MM LA VN MY Bor ID Sum Ja AU CN Hn TW JP US CA CU PR EC GS PH PG SB NC WS DZ NA TN LY EG GW LB SL GA CM NG NE CI GM CF SD ET ER DJ SO KE UG YE TZ ZW RW BI MW AO NM SZ LS MG MZ ZA Tva Nta Gau Tva Lpo Spb Mdk BW SC ZR ZM TD WS FJ Pa Hf TH CMa Cnz Cz10 Cz11 ID Sum Sbh AE Fa Shr Com Se Ha Th Elb Kuh Ss Kdj 01 05 06 09 13 16 17 31 33 39 44 46 58 65 71 76 80 05A 09K 09Ka 13A 13Ab 13Ax 13F 16A 31M 33A 33Ac 44L 44Lc 65N 65Np 65Nm 76A 76Ac 76B 76Bb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 3♂, M. Kemal & A.Koçak leg.

118. *Euzophera (s.str.) imperfectella* Ragonot,1895

Synonym(s): *imperfectella* Ragonot,1895; *xylomorpha* Meyrick,1937. Original Reference: *Euzophera imperfectella* Ragonot,1895, Bull. Soc. ent. Fr. 1895: 100. Lectotype ♀: [Turquie]: Alexandrette [Iskenderun] (designated by Roesler,1973, Microlep. palaearkt. 4: 223) (MNHN). Range (in code): TR IL Hf Pa IQ Ry Shq IR Fa 13 23 31 46 56 65 13A 13Ab 13Ax 13F 31F 31M 56F 56F1 56Fm 65D 65Df 65Fz 65N 65Np2 65Nm

119. *Evergestis politalis* ([Denis & Schiffermüller],1775)

Synonym(s): *politalis* [Denis & Schiffermüller],1775; *pictoralis* Fabricius,1794; *bifascialis* Guenée,1849; *disperalis* Mann,1859; *bicoloralis* La Harpe,1861; *maroccana* Lucas,1955 Original Reference: *Pyralis politalis* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 121. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): MA DZ Bsk Lbs TN Gf Sfx PT ES FR Co Sa Si IT BE DE CH AT PL CZ SK HU RO YU BG TR IR GlS TM Kp KG Tk Dj Ii Cc AM Eri AZ Kir Nv Ord 05 06 13 16 38 42 44 58 65 05A 13A 13Ab 13Ax 16A 44E 44Eh 65F 65Fp 65Fz

120. *Isauria dilucidella* (Duponchel,1836)

Synonym(s): *dilucidella* Duponchel,1836; *ilignella* Zeller,1839; *laternella* Eversmann,1844; *crepusculella* Lederer,1870; *incredibilis* Staudinger,1879; *subsortella* Ragonot,1887; *satanella* Ragonot,1887; *odontella* Ragonot,1893; *ledereri* Ragonot,1893; *cuencella* Caradja,1916; *gabalitella* Chrétien,1931; *griseus* Lucas,1950; *parvella* Amsel,1951; *shahidanella* Amsel,1970 Original Reference: *Phycis dilucidella* Duponchel,1836, Hist. nat. Lépid. Papillons Fr. 10: 184, Pl.278 fig.7. Type ♂: France. Range (in code): DZ Bsk ES Cue FR Sa Si IT DE CH AT PL CZ SK HU RO YU BG GR TR RU Ur MD UA BY IQ Hjo LB Bsa IL Pa TM Kp IR Fa Th Kdj Shh Plr Mz Elb Dam Kz Com AF Sfk KG MN Cc AM GG Smt Akh AE 05 06 10 13 16 23 25 31 32 38 42 46 47 50 53 58 65 71 05A 10K 10Ka 13A 13Ab 13Ax 13F 13F20 13F35 13F38 13F40 16A 23I 23Ib 31K 31Ka 31Ka7 65A 65Ab 65Aba 65Ai 65C 65Cb 65D 65Du

121. *Mecyna subsequalis* (Herrich-Schäffer,1855)

Synonym(s): *#subsequalis* Herrich-Schäffer,1851; *subsequalis* Herrich-Schäffer,1855; *lutulentalis* Lederer,1858; *consequens* Meyrick,1932 Original Reference: *Botys subsequalis* Herrich-Schäffer,1855, Syst. Bearb. Schmett. Eur. 6: 141, pl.19 fig.133. Type: Armenia. Range (in code): BG GR Cr TR SY Dms IQ Hjo LB Bsa Cc GG Bjo AZ Nv Ord IR Th Elb Kdv Mz Dam Gor 01 05 06 13 24 29 30 31 33 42 44 46 56 58 65 69 71 76 80 05A 06H 06R 13A 13Ab 13Ax 13F 13F01 13F35 13F38 13G 13Gü 13Gw 29A 30B 30Bc1 30Bx 31K 31Ka 31Ka3 31Ka6 44E 44Eh 56F 56Fs 56Fs1 65A 65At 65At5 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Dh 65Dv 65Dt 65F 65Fz 65Fp 76C 76D 76Dd

122. *Metallosticha argyrogrammos* (Zeller,1847)

Synonym(s): *argyrogrammos* Zeller,1847; *ortneri* Hartig,1938 Original Reference: *Myelois argyrogrammos* Zeller,1847, Isis 1847: 29-30. Type ♂: [Turkey]: Makri [=Fethiye]. Range (in code): Si IT RO HV MK Och BG GR TR LB Bsa Bei SY Dms IL Hf Pa IR Fa Shr 05 06 13 16 21 31 38 42 45 46 48 56 65 70 73 05A 06R 13A 13Ab 13Ax 16A 21L 21Lc 31M 56Fb 65A 65Am 65Am4 65D 65Df 65Du 65Dh 65Fz 73D 73Df

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 15 7 2015, 6♂, M. Kemal & A.Koçak leg.

123. *Myrlaea albistrigata* (Staudinger,1881) (Fig. 48)

Synonym(s): *albistrigata* Staudinger,1881 Original Reference: *Pempelia albistrigata* Staudinger,1881, Horae Soc. ent. ross. 16: 86. Syntypes 2♂♂: [Türkei]: Amasia. Range (in code): TR Cc LB Bsa IR Elb Mz Kdv Plr Shh IQ Ry Hjo AF Pag 05 06 13 30 42 46 47 56 65 71 76 05A 13A 13Ab 13Ax 13F 13F6 30B 30Bc1 30Bx 42B 56F 56F1 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65B 65Bo 65Bx 65D 65Dh 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 3♂, M. Kemal & A.Koçak leg.

124. *Nomophila noctuella* ([Denis & Schiffermüller],1775)

Synonym(s): *noctuella* [Denis & Schiffermüller],1775; *hybridalis* Hübner,1796; *indistinctalis* Walker,1859

Original Reference: *Tinea noctuella* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 136. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): MA DZ TN Sfx Elk PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR IQ Bgd Dia Shq Amr Kro Bji IR Ahz Ab Elb Dam Plr Mz Enz LB Bsa Bei SY IL Pa Hf AF Hr Bmu Anj Gz Jla Kot PK Mre DK NO SE FI EE LV LT RU MD UA BY PH TW AE Cp Haz Abb C-P Cte ID IN ZA Sro Qba Gea Bsk Onç Ceg Heh Ogl Gle Omy Gtt Ah Ajj Ges Rhr 01 05 06 08 11 13 14 16 17 21 30 31 32 33 34 35 37 38 39 44 46 48 49 55 56 58 60 63 65 71 73 76 80 05A 06R 08H 08Ha 13A 13Aa 13Ab 13Ax 13B 13Ba 13F 13F6 13G 13Gö 13Gg 13Gw 13Gü 13Gs 16A 21N 21Nb 21Nc 30B 30Bc1 30Bx 30Br 31A 31H 31M 33A 33Ad 44L 44Lc 48L 49F 49Fb 49Ff 55F 56D 56Dc 56F 56Fo 58G 60G 63D 65A 65Ai 65An 65Am 65Am1 65Am2 65Am3 65Ab 65Aba 65D 65Da 65Dd 65Dda 65Df 65Dh 65Dg 65Dl 65Dlc 65Dr 65Dt 65Du 65Dv 65E 65Eb 65Ec 65Eç 65Ed 65F 65Fb 65Fc 65Fd 65Fp 65Fw 65Fz 65G 65Gf 65Gn 65N 65Nc 65Nc4 65K 65Kb 65Kç 65Kl 65Ku 65Ky 65Ky1 65L 65Lb 65M 65Mc 65Md 65N 65Nk 65Np 65Np1 65Np2 65Nm 73A 73Aç 73Aç2 73D 73Db 73Df 73Dfb 73Dfc 76B 76Bç 80B 80Bc 80E 80Ea

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 1♂, M. Kemal & A.Koçak leg.

125. *Nyctegretis lineana* (Scopoli,1786)

Synonym(s): *lineana* Scopoli,1786; *achatinella* Hübner,[1824].

Original Reference: *Phalaena lineana* Scopoli,1786, Del. Florae Faun. Insub. 2: 57, Tab.21 fig. vi A, B. Range (in code): ES FR Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU GR TR Cc DK NO SE FI EE LV LT RU MD UA BY Ur LB IL IQ IR Mz Elb CN Ui Ku Shs AF KG Uk TM Kp MN 06 07 13 16 21 31 33 34 46 48 65 71 73 76 13A 13Ab 13Ax 13F 16A 31M 48L 65A 65Ai 75F 75Fd 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 2♂, M. Kemal & A.Koçak leg.

126. *Ocrisiodes antiopa* Roesler,1988 (Figs. 53-55)

Synonym(s): *antiopa* Roesler,1988

Original Reference: *Ocrisiodes antiopa* Roesler,1988, Entomofauna 9: 485-489, figs. 21-22. Holotype ♂: W-Iran, Kordestan, Str. Sageh-Baneh, 21km NE Baneh 1950m, Ebert & Falkner leg. (LNK). Range (in code): IR Kd Bne Lo TR 13 65 13A 13Ab 13Ax 65B 65Bo 65Bx 65F 65Fp 65Fz

New to the fauna of Bitlis Province!



Figs. 53-55 - *Ocrisiodes antiopa*. Upperside of male. GP2309 (left). Male genitalia, coremata, and basal abdominal segments with tympanal organ (right). Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

127. *Paracorsia repandalis* ([Denis & Schiffermüller],1775)

Synonym(s): *repandalis* [Denis & Schiffermüller],1775; *repandata* Fabricius nec Linn.,1758; *pallidalis*

Hübner,1796 Original Reference: *Pyralis repandalis* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 120. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): MA DZ PT ES FR Co Sa IT MT GB BE LU DE CH AT PL CZ SK HU RO YU MK BG GR Cr TR Cc AZ Nv Ord IR Th Kh Fa TM Kp RU MD UA Cm BY AF Kot Srb Bsg Pag Bm US Idp 05 06 13 16 31 38 42 44 45 46 65 70 76 05A 06R 13A 13Ab 13Ax 13F 16A 31K 31Ka 31Ka3 31Ka5 44I 44Ic 44L 44Lc 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Df 65Dh 65Dg 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 70C 70Ce 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 1♂, M. Kemal & A.Koçak leg.

128. *Polyocha transversariella* (Zeller,1848)

Synonym(s): *transversariella* Zeller,1848; *strigosa* Staudinger,1879; *phoeniciella* Ragonot,1895; *discella* Hampson,1901; *granatella* Zerny,1927 Original Reference: *Anerastia transversariella* Zeller,1848, Isis 1848: 588-589. Type: Italia, Ragusa [nomenclaturally available name]. Range (in code): MA DZ Ah TN PT ES An Grn IT Si RO YU GR RU MD UA BY TR Cc IL Pa Hf LB Bei JO IQ Shq Rwz Mos Dia IR Fa 01 05 13 16 21 25 31 33 42 46 47 65 71 76 80 05A 13A 13Ab 13Ax 13F 13F6 16A 31M 42B 47D 65A 65Ab 65Aba 65Ac3 65D 65Dv 65Dt 65Du 65N 65Np2 65Nm 76C

129. *Polyochodes farsella* (Amsel,1951)

Synonym(s): *farsella* Amsel,1951 Original Reference: *Ardekania farsella* Amsel,1951, Arkiv zool. (n.s.) (2) 1 (36): 527, figs.4, 54. Syntypes 6 ♂: Iran, Comé 2600m 15.8. Range (in code): TR IR Fa Com 13 13A 13Ab 13Ax GP2169♂.

Leraut (2014) transferred this species to *Polyochodes* Chrétien,1911.

New to the fauna of Turkey and also Bitlis Province!

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 15 7 2015, 1♂. M. Kemal (Cesa)

130. *Pterothrixidia rufella* (Duponchel,1836)

Synonym(s): *rufella* Duponchel,1836; *impurella* Duponchel,1837; *luridatella* Herrich-Schäffer,1847; *infuscatella* Herrich-Schäffer,1849; *corsicella* Ragonot,1893; *#pallida* Leraut,2014; *rungsella* Leraut,2014 Original Reference: *Phycis rufella* Duponchel,1836, Hist. nat. Lépid. Papillons Fr. 10: 170, pl.277 fig.6. Type(s): France, Corse. Range (in code): MA Ifr PT ES Mu FR Co Sa IT MT CH HU RO YU AL BG GR AM Eri Cc TR 05 13 45 44 46 47 32 58 65 70 05A 13A 13Ab 13Ac 13Af 13Ax 13F 13F6 44L 44Lc 47D 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Df 65Dt 65Fz 65N 65Np1 65Np2 65Nm 70A 70Ab

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aydınlar NW 2125m (6Aç) 26 6 2015, 1♂, diurnal, M. Kemal & A.Koçak leg.

131. *Pyrallis perversalis* (Herrich-Schäffer,[1849])

Synonym(s): *lucidalis* Eversmann,1844 (*praeocc.*); *perversalis* Herrich-Schäffer,[1849]; *narynsensis* Zerny,1914; *rubiginetincta* Caradja,1931; *#naryssensis* Amsel,1961 Original Reference: *Asopia perversalis* Herrich-Schäffer,[1849], Syst. Bearb. Schmett. Eur. 4: 123. Type: Russia: Ural. Range (in code): cz HU RO RU Ur MD UA BY TR Cc GG Ord Kir AZ Nv KG Tk NrK CN Ui Ku IR Elb Mz Kh LB Bsa 13 25 42 65 76 13A 13Ab 13Ax 13F 65A 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Fz 65N 65Nf 65Np2 65Nm 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m, 4 8 2013, 2♂, M. Kemal & A.Koçak leg.

132. *Pyrausta aurata* (Scopoli,1763)

Synonym(s): *aurata* Scopoli,1763; *punicealis* [Denis & Schiffermüller],1775; *nepoldalis* Lederer,1863; *meridionalis* Staudinger,1880 *nec* Wcke,1871; *deficiens* Dufrane,1957; *inciae* Koçak,1982 Original Reference: *Phalaena aurata* Scopoli,1763, Entomologia Carniolica: 227. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): Cn MA DZ TN PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr LB Bsa IL Pa CY TR IR Fa Yz Elb Kdj Th Ana Ke Ab Sro Enz Gh Kh Tgo Gls IQ Dia Rwz Shq DK NO SE FI EE LV LT RU MD UA BY AF Srb Plr Arh Hr Kot Fz Khi Kab Dwe Cc GG Bjo Mng Nv Ord Hkd Len Sok AZ Agi 01 05 06 13 14 16 23 30 31 42 44 56 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13C 13Cc 13Cd 13G 13Gf 13Gg 13Gw 13Gü 13F 16A 30D 30Dx 31K 31Ka 31M 44F 44Fb 44I 44Ic 56F 56Fb 65A 65Ag 65Ai 65Am 65Am2 65At 65At5 65G 65Go 65F 65Fp 65Fz 76D 76Dd

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 3♂, M. Kemal & A.Koçak leg.

133. *Pyrausta despicata* (Scopoli,1763)

Synonym(s): *despicata* Scopoli,1763; *koenigiana* O.F.Müller,1764; *vestianella* Clerk,1764; *cespitalis* [Denis & Schiffermüller],1775; *sordialis* Thunberg,1784; *intermedialis* Duponchel,1833; *tendinosalis* Bremer,1874; *yangtsealis* Caradja,1938; *ifranalis* Leraut,2001 Original Reference: *Phalaena despicata* Scopoli,1763, Entomologia Carniolica: 231. Type(s): [Slovenien]: Carniolia [Krain]. Range (in code): MA Ifr PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO SS YU AL BG GR Cr TR IQ Rwz Amr DK NO SE FI EE LV LT RU Cc GG CY IR Ab Elb Shh Th Fa Shr Com Ha Plr Kdv Mz AF Hr Bmu Slg Pnj BdA Pic Kab Arh Srb Ca Gbh Adr Fz Khi Pag Plr UZ Fe CN Ui AZ AM Ju Ku LB Bsa PK Abb Sro Mz Sb Yu Uk JO KG DZ Lbs BY MD UA Cm Lvv Da Aa VI KP KR 01 05 06 11 13 14 16 17 21 24 25 31 32 33 34 42 46 49 51 55 56 58 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13B 13Bg 13G 13Gf 13F 13F6 13Gö 13Gg 13Gw 16A 21L 21Lf 31M 49F 49Fb 55F 56D 56Dd 56F 56F1 58G 58Gg 65A 65Ac 65Ac3 65Ai 65As 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65Dg 65Dga 65Dh 65Du 65Dw 65G 65Gn 65F 65Fb 65Fç 65Fp 65Fz 65K 65Kb 65Ké 65Kl 65Ku 65Kg 65L 65Lb 65N 65Nk 65Np 65Np7 65Np8 65Nr2 65Nm 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 4 8 2013 1♂, 14 7 2015, 4♂, M. Kemal & A.Koçak leg.

134. *Pyrausta sanguinalis* (Linnaeus,1767)

Synonym(s): *sanguinalis* Linnaeus,1767; *crentalis* Scriba,1770; *haematalis* Hübner,[1819] Original Reference: *Phalaena sanguinalis* Linnaeus,1767, Syst. Nat. (Edn.12) 1(2): 882, no.339. Lectotype 1 ex: [Lusitania] (Robinson & Nielsen, 1983: 229). Range (in code): PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU MK AL BG GR Cr TR DK NO SE FI EE LV RU MD UA BY Cc GG AZ Tbl Bjo Kir Lag AM Eri IL Pa Hf LB CY IR Gh Tgo Ana Ke Fa Shr Com Elb Kh Th Mz Plr Gor AF Pag Kot Bkt Asm Arh Hr Slg Bsg Gbh Srb Pl Nv Ord Len Mz GlS DZ Bsk Clo TN Gf CN Ui Ku Js MA DZ 01 05 06 07 13 16 17 30 31 33 34 39 44 54 56 65 69 70 71 73 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13Fo1 13F41 16A 31K 31Ka 31M 33A 33Ac 44L 44Lc 56F 56Fo 65A 65Am 65Am1 65D 65Df 65Ds 65Fz 70C 70Ce 73E 73Eb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 15 7 2015, 4♂, M. Kemal & A.Koçak leg.

135. *Sitochroa straminealis* (Hampson,1900) (Fig. 56)

Synonym(s): *straminealis* Hampson,1900 Original Reference: *Phlyctaenodes straminealis* Hampson,1900, Trans. ent. Soc. Lond. 1900 (2): 388, pl.iii fig.22. Type ♂: [Turkey]: "Asia Minor" (coll. Staudinger). Range (in code): TR LB Bsa IR Fa Com 13 42 65 73 13A 13Ab 13Ax 13F 13F6 65A 65Ai 65Am 65Am4 73A 73Ad 73Ad2

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 10 6 2015, 10♂♀, M. Kemal & A.Koçak leg.

136. *Synaphe consecratalis* (Lederer,1855)

Synonym(s): *consecratalis* Lederer,1855 Original Reference: *Pyralis consecratalis* Lederer,1855, Verh. zool.- bot. Ges. Wien 5: 250. Syntypes 2♂: Türkei: Siwas ? Diarbekir. Range (in code): LB TR Cc SY IR Elb Th IQ Ry Cc AM Eri 01 06 13 21 27 31 33 46 56 58 65 76 79 80 06R 06Rd 13A 13Ag 13Ax 13G 13Gd 21N 21Nb 31A 31M 46F 46Fe 56F 56Fç 56Fv 58G 65F 65Fp 65Fz 65K 65Kb 65N 65Np2 65Np7 65Nm 79B 79Ba 80B 80Bc

137. *Talis renetae* Ganev & Hacker,1984

Synonym(s): *renetae* Ganev & Hacker,1984 Original Reference: *Talis renetae* Ganev & Hacker,1984, Nota lepid. 7 (3): 249-250, 308. Holotype ♂: Türkei: Ankara: Tuz Gölü, 12km E, Şekerköy, 900m (coll. Ganev). Range (in code): TR 06 13 13A 13Ab 13Ax

This autumnal species was recorded by the authors from this region in 2013 (Kemal & Koçak, 2013).

138. *Tegostoma perlepidalis* (Guenée,1854) (Fig. 49)

Synonym(s): *#lepidalis* Herrich-Schäffer,[1851]; *perlepidalis* Guenée,1854; *lepidalis* Herrich-Schäffer,[1855]; *#lepidale* Caradja,1917 Original Reference: *Anthophilodes perlepidalis* Guenée,1854, [in] Boisdual & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: [447] (Errata) (nomen novum pro lepidalis H.-S. nec Cramer). Syntypes 2♀: [Turquie]: "Amasieh" [Amasya] (coll. Guenée). Range (in code): TR Cc AM Eri AZ Nv Ord IQ IR Elb Kdj Th Ha Adv Fa Sse Shr AF Kab 05 06 13 42 56 65 71 05A 06R 13A 13Ab 13Ax 13F 56F 56F6 65D 65Df 65F 65Fo 65Fp 65Fz 65K 65Kd 65Kg 65N 65Np2 65Nm

139. *Udea confinalis* (Lederer,1858)

Synonym(s): *confinalis* Lederer,1858; *graecalis* Staudinger,1870 Original Reference: *Botys confinalis* Lederer,1858, Wien. ent. Monatschr. 2: 149 Taf.4 fig.4. Type ♀: Syria: Damask. Range (in code): GR TR Cc SY Dms IQ Ry Hjo IR Elb Nss Com Kz Th Fa Kh 13 46 65 76 13A 13Ab 13Ax 13F 13F6 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Fz 76C

140. *Udea ferrugalis* (Hübner,1796)

Synonym(s): *ferruginalis* Rossi,1794 nec Fabr.,1781; *ferrugalis* Hübner,1796; *#ferrugalis* Hübner,1796; *martialis* Guenée,1854; *hypatialis* Walker,1859; *testacea* Butler,1879 Original Reference: *Pyralis ferrugalis* Hübner,1796, Samml. eur. Schmett. 6,Pyralides: Tab.9 fig.54. Type(s): Europa. Range (in code): DZ MA PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR DK NO SE FI EE LV RU MD UA BY IL Pa Hf LB Bsa IR Ahz Elb Mz Kdv Dam Plr Gor Kdj Km Th Fa Shr Sse Kh Gh Tgo IQ Dia Bgd Rvw AF Ca Arh Khi Adr Fz Bsg Hr Blh IN LK MM ET JP TW TH Cma Dst Dso9 Cc GG Tbl Lag Len AZ Sok Cn AE Ajj Clo 01 03 05 06 07 13 14 16 17 26 31 32 33 34 35 38 42 44 46 48 49 56 58 63 65 71 75 76 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13G 13Gö 13Gg 16A 31K 31Ka 31M 44E 44L 44Lc 48L 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am2 65Am4 65D 65Df 65Du 65Dv 65F 65Fd 65Fp 65Fz 65K 65Kl 65Ku 65N 65Nc 65Nc4 65Np1 65Nm 75F 75Fb 76D 76Dd 80B 80Bc

141. *Udea praepetalis* (Lederer,1869) (Fig. 57)

Synonym(s): *praepetalis* Lederer,1869; *haemopsamma* Meyrick,1937 Original Reference: *Botys praepetalis* Lederer,1869, Horae Soc. ent. ross. 6: 90, pl.5 fig.11. Type: Iran: Astrabad [Gorgan],

leg. Haberhauer. Range (in code): IR Ha Adv Fa Th Kdj Elb Kdv Mz Plr Gor Sse TR Cc AZ Nv Ord IQ Ry Slf TM KK CN Ui Kml 04 05 13 25 30 42 46 51 56 58 65 69 71 76 05A 13A 13Ab 13Ax 13B 13Bd 13F 25A 30B 30Bc1 30Bx 56F 56F1 56Fn 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dx 65F 65Fr 65Fp 65Fz 65H 65K 65Kd 65Kg 65Kl 65N 65Np2 65Nr2 65Nm 69B 76C

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂, M. Kemal & A.Koçak leg.

142. *Uresiphita gilvata* (Fabricius, 1794)

Synonym(s): *polygonalis* sensu [Denis & Schiff.], 1775 nec Linn., 1767; *#limbalis* [Denis & Schiffermüller], 1775; *gilvata* Fabricius, 1794; *orientalis* Fabricius, 1794; *diversalis* Hübner, 1796; *rusticalis* Hübner, 1796; *aversalis* Guenée, 1854; *consanguinalis* Guenée, 1854; *teriadalis* Guenée, 1854; *deprivalis* Walker, 1859; *meridionalis* Wocke, 1871; *virescens* Butler, 1881; *gracilis* Caradja, 1916; *ochrocrossa* Clarke, 1971 Original

Reference: *Phalaena gilvata* Fabricius, 1794, Ent. Syst. 3 (2): 208. Range (in code): TN Sfx PT ES FR Co Sa Si IT MT GB BE NL DE CH AT PL CZ SK HU RO YU BG GR Cr CY DK RU UA BY TR IL Pa Hf LB Bsa IQ Mos Brs Dia Amr Ssa IR Ahz Fa Shr Se Ha Glb Elb Th Kdj Lo KG Tks AF Hr Bmu Kab Srb Arh Gbh Bsg Blh Dwe Bkt PK Cp Gg ZA Tva Lpo Spb Hgl Mdk Cm Lvv VI Ur Tv Lj Sd Krc Lbs An Grn Bei DZ Gtt Onç Anna Orn Ges 01 05 13 16 30 31 33 45 46 56 65 71 80 05A 13A 13Ab 13Ax 13F 16A 30D 30Dx 31K 31Ka 31M 46G 46Gf 46Gi 56F 56F1 65D 65Df 65Dv 65F 65F1 65Fz 65N 65Nc 65Nc4

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 14 7 2015, 1♂ 1♀, M. Kemal & A.Koçak leg.



Figs. 56, 57 - *Sitochroa straminealis* (left) Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 10 6 2015, *Udea praepetalis* (right), same place on 15 7 2015, both nocturnal, M. Kemal (Cesa)

Scythridae

143. *Scythris (scopolella-gr.) flabella* (Mann, 1861)

Synonym(s): *flabella* Mann, 1861; *aurella* Caradja, 1920 Original Reference: *Butalis flabella* Mann, 1861, Wien. ent. Monatschr. 5: 190-191, Taf.3 fig.11. Syntypes 3♂: [Türkei]: "Amasia". Range (in code): MK BG TR RU GG IR Fa AM Eri Cc 05 06 13 31 38 42 46 65 76 05A 13A 13Ab 13Ax 31M 65A 65Ai 65Am 65Am1 65F 65Fd 65Fp 65Fz 65N 65Nb 76C

New to the fauna of Bitlis Province!

Sphingidae

144. *Hyles euphorbiae* (Linnaeus, 1758)

Synonym(s): *euphorbiae* Linnaeus, 1758; *esulae* Hufnagel, 1766; *vandalusica* Ribbe, 1910; *etrusca* Verity, 1911; *sinensis* Closs, 1917; *rothschildi* Stauder, 1928; *dolomiticola* Stauder, 1930; *filipjevi* O.Bang-Haas, 1936; *lucida* Derzhavets, 1980. Original Reference: *Sphinx euphorbiae* Linnaeus, 1758, Syst. Nat. (Edn.10) 1:

492. Range (in code): Md Cn MA DZ TN PT ES FR Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd DK SE FI EE LV LT RU Ao Sr Sb Ur MD UA Bkw BY AZ Tlh IR Elb Th CN Ui Ku Muz TJ Pm TR Cc GG Smt Bjo Tbl JO IL Pa Hf LB Bsa Bei IQ SY Dms IR Elb Th 01 05 06 07 09 10 13 14 15 16 17 20 21 24 25 30 32 33 35 36 42 45 46 47 48 50 51 56 58 60 63 65 70 73 76 01H 05A 06R 06Ra 06Re 10C 10D 13A 13Ab 13Ac 13Ax 13F 16A 21L 21Lc 21N 21Nb 24G 25C 25Ca 30B 30Bd 30Bx 30D 30Da 30Df 36D 51D 47F 47Fa 48G 48Gb 56F 56Fh 56Fa 56Fs 58G 58Gg 60C 63B 65A 65An 65Am 65Am1 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65F 65Fb 65Fe 65Fs 65Fz 65N 65Nc 65Nc4 65Np 65Np1 65Np2 65Nm 70C 70Cf 73C 73Cd 73D 73Da 76A 76Ac 76B 76Bb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m, 10 6 2015, 1♂, M. Kemal & A.Koçak leg.

145. *Hyles livornica* (Esper,[1780])

Synonym(s): *livornica* Esper,[1780]; *koechlini* Fuessly,1781; *tatsienluica* Oberthür,1916; *saharae* Gehlen,1932; *malgassica* Denso,1944; *tatsienluica* Oberthür,1944; *renneri* Eitschberger, Danner & Surholt,1998. Original Reference: *Sphinx livornica* Esper,[1780], Die Schmett. 2 (13): 88. Type: Germany. Range (in code): Md Cn MA DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IR Elb Shh Gor Ke Kh SbZ DK SE FI EE LV RU Sr Mo MD UA BY CN Ui GG Bjo Tbl IL Hf Pa LB Bsa Bei TM Kp K-A Krn PK Bl Qu AU SAu Ade Hw ZA Cap Fs Blo SO MG IQ TW Bkw TH CMa NP SI Ch Djl YE Ad CN Ti Yu T-T Cm CY Ss Kz Gau Tva Pre Agh JO AF Nu Bsg Srb Kab Nu Bsg Cc AZ AM Cc Cp Ak Msw Ess Orn Odj Agi Ges BSa Omy Bsk Ktr Khh DhM Onç Gha Dze Mzg Hrh Gf Omy Gle Ceg Gtt Ath Ah 01 05 06 07 09 10 13 16 17 19 21 23 30 31 33 34 35 36 44 45 46 47 48 53 56 58 60 61 63 73 75 76 05A 06R 06Ra 06Re 07A 07C 10K 10Ka 13A 13Ab 13Ax 13F 16A 19G 19P 21L 21N 21Nb 23I 30B 30Ba 31K 31Ka 31Ka7 33A 33Ad 44L 44Lc 46G 47F 47Fa 48G 48Gb 53N 56F 56Fa 56Fh 56Fo 56Fm 58N 60C 63D 65A 65At 65At5 65Am 65Am1 73C 73Cd 75F 76B 76Bb

146. *Hyles nicaea* (Prunner,1798)

Synonym(s): *nicaea* Prunner,1798; *cyparissiae* Hübner,[1813]; *#nicaea* De Freina,1981 Original Reference: *Sphinx nicaea* Prunner,1798, Lepid. Pedemontana: 86. Type: "Nice en Provence". Range (in code): DZ Sbd MA Khh Afl PT ES FR Co Sa IT YU AL BG GR TR Cc AM Eri LB Bsa UA Cm IN KG Ssn IQ 06 13 19 25 30 36 50 58 60 65 66 76 13A 13Ab 13Ax 13G 13Gü 13Gw 19C 30B 30Ba 30Bh 30Bd 30Bx 30D 30Da 36D 36F 50G 58Ia 60C 65A 65Am 65Am3 65Ac 65Ac3 65Bx 65D 65Dl 65Dlc 65F 65Fi 65Fp 65Fz 65G 65Ge 65K 65Kd 65Kg 66P

147. *Laothoe populeti* (Bienert,[1870])

Synonym(s): *populeti* Bienert,[1870]; *populetorum* Staudinger,1887; *syriaca* Gehlen,1932; *intermedia* Gehlen,1934. Original Reference: *Smerinthus populeti* Bienert,[1870], Lepid. Ergebn. Reise Persien: 33. Type: Iran: "Meschhet". Range (in code): TR Cc AZ Nv Ord Kir GG Bjo Lag AM LB SY IQ IR Ab Oru Qba Mz GlS Kh TM UZ TJ KK KG Uk Ssn T-S CN Ui Ku Ts Kno 02 05 06 12 13 25 30 32 36 42 44 46 48 53 56 60 65 71 75 02E 02Ec 05A 06R 06Ra 12E 13A 13Ab 13Ax 13F 13G 13Gü 13Gw 30B 30Bd 30Bx 30C 30Cd 30D 30Da 36D 36Db 36F 44E 44Eh 46G 48L 56F 56F6 56F3 56F1 60C 65A 65Ai 65An 65Am 65Am1 65D 65N 65Np 65Nm 75F 75Fb

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 10 6 2015, 1♂ 1♀, M. Kemal & A.Koçak leg.

148. *Macroglossum stellatarum* (Linnaeus,1758)

Synonym(s): *stellatarum* Linnaeus,1758; *nigra* Cosmovici,1892. Original Reference: *Sphinx stellatarum* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 493. Range (in code): Cn MA DZ TN LY EG PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU MK AL BG GR Cr TR IQ SY LB Bsa IL JO DK NO SE FI EE LV LT RU Sr Ur Mo Ao Sb To Am Vv MD UA Cm IR Elb Kh Ke KK KG Uk Ssn Sp TM Krn Kp TJ Pm UZ AF Ca PK Bl Qu CN Ui Kun Bkw BY KP KR TW JP Az Md CY Pa Hf K-A Lps Shh Ur Ask Pkn Cm Vl Pt Tt Or Bgd Rd JO Kab Khi Pjr Hrz Cc Mre Ab Qba Oru Ak Shf Rbt Saia Orn Agi Blid Omy Bsk Ktr Mzg Hrh Ahr Sfr Tni Tis 01 05 06 09 10 11 13 14 16 17 21 25 30 31 33 35 36 38 45 46 48 55 56 58 60 63 65 70 71 75 76 01H 05A 06R 06Rd 10D 10K 10Ka 13A 13Ab 13Ac 13Ax 13F 13Gw 13Gü 16A 30B 30Bc2 30Bx 31K 31Ka 33A 33Aa 36D 36Db 38G 38Ga 46F 46Fd 48A 48G 48Gb 48F 48L 55F 56F 56Fg 56Fm 56Fa 58N 63D 65A 65Ai 65B 65Bn 65Bn1 65D 65Dn 65Du 65E 65Eb 65Ec 65F 65Fb 65Fç 65Fd 65Fş 65Fz 65G 65Gs 65K 65Ks 65Kz 65Kg 65Ky 65Ky1 65M 65Mc 65Md 65N 65Np 65Nm 70C 70Cb 75F 76B 76Bi

Tortricidae**149. *Acleris quercinana* (Zeller,1849)**

Synonym(s): *quercinana* Zeller,1849; *mucidana* Peyerimhoff,1874 Original Reference: *Teras quercinana* Zeller,1849, Stettin Ent. Ztg. 10 (9): 283-284. Type: Italia, Toscana. Range (in code): PT ES FR Co Sa Si IT BE NL DE CH AT PL CZ HU RO YU HV MK AL BG GR TR DK SE EE RU MD UA BY Cc GG Lag IR Ab Sdt Km 05 13 16 44 05A 13A 13Ab 13Ax 16A

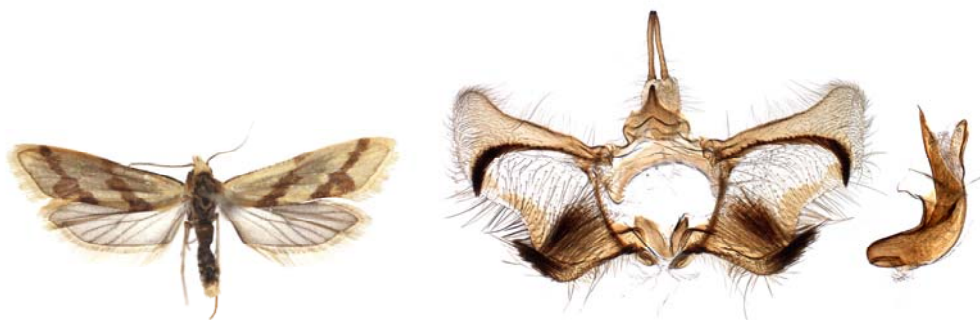
New to the fauna of Bitlis Province!

150. *Aethes fennicana* (M.Hering,1924) (Figs. 58, 59)

Synonym(s): *fennicana* M.Hering,1924; *adelaidae* Toll,1955. Original Reference: *Lozopera fennicana* M.Hering,1924, Notulae Ent. 4: 78. Type: Finnland, Esbo. Range (in code): S FR DE DK PL CZ SK SE FI LV LT IR Mz Elb Th RU Ur TR 13 13A 13Ab 13Ax Prep. no: GP2263♂

Material studied: 1♂. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m nocturnal. 11 6 2015, M. Kemal & A.Koçak leg. (Cesa). GP2263♂.

This record is new to the fauna of Turkey and Bitlis Province.



Figs. 58, 59 – *Aethes fennicana*, upperside of male. GP2263 (left). Male genitalia (right). Bitlis Province, Adilcevaz, Süphan Volcano, M. Kemal (Cesa)

151. *Aethes kasyi* Razowski, 1962

(Figs. 60, 61)

Synonym(s): *kasyi* Razowski, 1962; *speciosa* Razowski, 1962 Original Reference: *Aethes kasyi* Razowski, 1962, Acta zool. cracov. 7: 400, figs. 22-24. Holotype ♂: Macedonia, Drenovo nr. Kavadar (NHMW). Range (in code): IT MK TR IR Fa Elb Th Kdj Gor Kd Snj Ha Es JO Amm SK Cm SY AF 06 13 46 47 65 06R 13A 13Ab 13Ax 46G 46L 65A 65Am 65Am1 65D 65Df 65N 65Np 65Nm GP2310♂ GP2311♂

This record is new to the fauna of Bitlis Province.



Figs. 60, 61 – *Aethes kasyi*. Two male genitalia, GP2310 (left), GP2311 (right). Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 10 6 2015. M. Kemal (Cesa).

152. *Aethes prangana* (Kennel, 1900)

(Fig. 62)

Synonym(s): *prangana* Kennel, 1900 Original Reference: *Conchylis prangana* Kennel, 1900, Dt. ent. Z., Iris 13: 130-131, Taf.v fig.7. Syntypes 1♂ 1♀: Caucasus (12 vi 1883, Christoph leg.); Lectotype ♀, [Azerbaijan]: "Ordubad", designated by Razowski (1970: 343) (ZIANL). Range (in code): SY Hal IR Kdj Fa Kdj AZ Nv Ord Cc AM Eri RU Ur TR 13 13A 13Ab 13Ax

New to the fauna of Bitlis Province!

Material studied: 1♀. Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m nocturnal. M. Kemal & A. Koçak leg. (Cesa). GP2609♀ (Kemal & Koçak, 2017c).



Figs. 62, 63 – *Aethes prangana* (left) Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 10 6 2015, *Epinotia dalmatana* (right), same place but on 16 7 2015, both nocturnal, M. Kemal (Cesa)

153. *Aethes mauritanica* (Walsingham, 1898) (Figs. 64, 65)

Synonym(s): *mauritanica* Walsingham, 1898; *#mauretanica* Kennel, 1910; *cornelia* Turati, 1924; *albella* Amsel, 1952. Original Reference: *Lozopera mauritanica* Walsingham, 1898, Entomologist's mon. Mag. 34: 73. Holotype ♂: Morocco: Mogador (BMNH). Range (in code): MA Ess Tgr DZ Orn LY Cy ES Sa IT YU BG GR TR 06 13 34 41 47 06R 13A 13Ab 13Ax Prep. no: GP2215♀

New to the fauna of Bitlis Province!

Material studied: 1♀. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 10 6 2015, GP2215♀. M. Kemal & A.Koçak leg. (Cesa).



Figs. 64, 65 – *Aethes mauritanica*, upperside of female. GP2215 (left). Female genitalia (right). Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

154. *Cnephasia* (s.str.) *orientana* (Alpheraky, 1877)

Synonym(s): *orientana* Alpheraky, 1877 Original Reference: *Sciaphila orientana* Alpheraky, 1877, Trudy Vses. ent. Obstsh. 10 (1876): 48. Syntypes: Russia: Tagonrog. Range (in code): MT RO BG TR SY Dms RU UA Cm CY Cc AM Eri GG KG Uk TM UZ TJ IR Elb Dam Ar Ab Oru Es Gh Km Th IQ AF 06 13 30 38 44 46 56 65 76 13A 13Ab 13Af 13Ax 44A 44Ab 44L 44Lc 46F 46Ff 56D 56Dc 65B 65Bo 65Bx 65D 65Dg 65Dga 65F 65Fç 65Fz 65K 65Kd 65Kg 76C

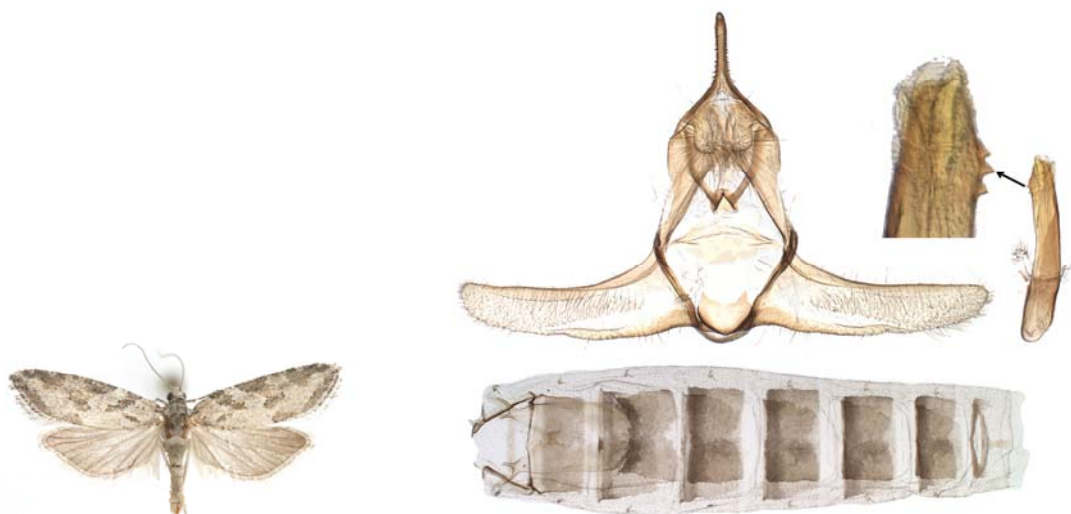
New to the fauna of Bitlis Province!

Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 15 7 2015, 2♂, M. Kemal & A.Koçak leg.

155. *Cnephasia* sp. (Figs. 66-68)

GP2301♂. This species could not be identified for the time being.

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1970m 14 7 2015, M. Kemal & A.Koçak leg. (Cesa).



Figs. 66-68 – *Cnephasia* sp. upperside of male. GP2301 (left). Male genitalia, with enlarged aedeagus tip and abdominal skin (right). Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

156. *Cochylimorpha* sp.

This nocturnal species could not be identified for the time being.

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 9 9 2013, GP2214♂. M. Kemal & A.Koçak leg. (Cesa).

157. *Crociosema plebejana* Zeller, 1847

Synonym(s): *plebejana* Zeller, 1847; *altheana* Mann, 1855; *lavaterana* Millière, 1863; *peregrinana* Möschler, 1866; *obscura* Wollaston, 1879; *blackburnii* Butler, 1881; *signatana* Walsingham, 1894; *ptiladelpha* Meyrick, 1917; *insulana* Aurivillius, 1922; *synneurota* Meyrick, 1926; *tornocycla* Turner, 1946; *charmera* Turner, 1946.
Original Reference: *Crociosema plebejana* Zeller, 1847, Isis 1847: 721. Type(s): Sicilia: Syracuse.
Range (in code): DZ Anna Bsk MA TN Gf Cn Md Az PT ES FR Co Sa Si IT MT IE GB BE DE CH AT PL CZ SK HU RO YU B-H HV MK SS AL BG GR Cr TR DK RU MD UA BY Cc GG AZ AM SA SD IR IL Hf LB Bsa SA As YE TM IN Hp Ddu LK TH CMa TW AU CA US Cf MX BR PE CO VE EC GS ZA PH Luz Hw SH CL FJ TO WS 01 13 14 31 42 65 01K 13A 13Ab 13Ax 31M 42B 65D 65Du

New to the fauna of Bitlis Province!

158. *Cydia nebritana* (Treitschke, 1830)

Synonym(s): *nebritana* Treitschke, 1830 Original Reference: *Grapholita nebritana* Treitschke, 1830, Schmett. Eur. 8: 209. Type: Hungaria. Range (in code): DZ PT ES FR Sa IT BE DE CH AT PL CZ SK HU RO YU AL GR Rd BG TR LT RU Ur UA Cm 13 18 71 13A 13Ab 13Ax

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159. *Dichrorampha obscuratana* (Wolff, 1955) (Fig. 69)

Synonym(s): *obscuratana* Wolff, 1955 Original Reference: *Hemimene obscuratana* Wolff, 1955, Ent. Medd. 27: 66, figs. 4-8. Type: Hungary. Range (in code): BE NL CH DE AT PL CZ SK HU DK NO SE FI LV RU UA Sb TR 13 13A 13Ab 13Ax GP2260♂

New to the fauna of Bitlis Province!

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır N 2000m 11 6 2015, GP2186. M. Kemal & A.Koçak leg. (Cesa).

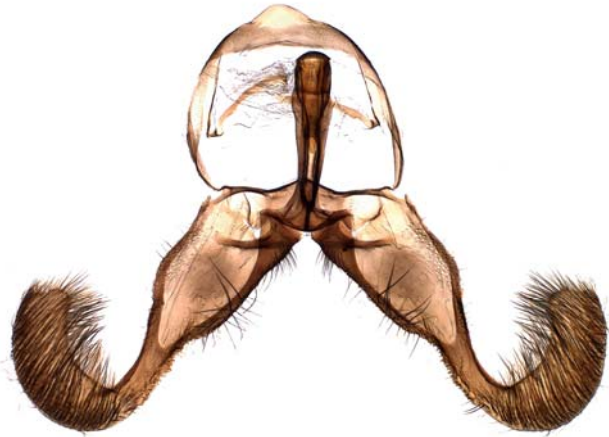


Fig. 69 - *Dichrorampha obscuratana*. Male genitalia, GP2260. Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

160. *Epinotia dalmatana* (Rebel, 1891) (Fig. 63)

Synonym(s): *dalmatana* Rebel, 1891; *luciana* Chrétien, 1908; *psychrodora* Meyrick, 1936; *mesopotamica* Obraztsov, 1952; *obraztsovi* Agenjo, 1967 Original Reference: *Grapholitha dalmatana* Rebel, 1891, Verh. zool. - bot. Ges. Wien 41: 622. Type: Croatia. Range (in code): ES FR IT YU HV GR TR RU MD Cc GG AZ AM IR Fa IQ SY Dms Bld LB Bsa Cm 06 13 30 44 47 13A 13Ab 13Ax 30B 30Bc1 30Bx 44L 44Lc

New to the fauna of Bitlis Province!

161. *Eugnosta lathoniana* (Hübner, [1800])

Synonym(s): *lathoniana* Hübner, [1800] Original Reference: *Tortrix lathoniana* Hübner, [1800], Samml. eur. Schmett. 7: pl.30 fig.189. Type: Europa. Range (in code): DZ PT ES Abr FR AT SK HU RO YU HV MK BG GR Pl TR Cc GG Smt Akh AM Eri RU Ur Sr St Tt UA Cm KG Uk IR Ab Mak Khy Ar Ak Aha 06 13 16 31 36 42 58 70 06R 13A 13Ab 13Ax 16A 31M 36D 36Db 42R 58G

New to the fauna of Bitlis Province!

162. *Gypsonoma dealbana* (Frölich,1828)

Synonym(s): *dealbana* Frölich,1828; *incarnana* Haworth,1811; *minorana* Treitschke,1830; *alnetana* Guenée,1845; *#reconditana* Herrich-Schäffer,1848; *obscurafasciana* Heinemann,1854 Original Reference: *Tortrix dealbana* Frölich,1828, Enumeration Tort. Württemb.: 51. Type: Germania, Württemberg.
Range (in code): PT ES FR Sa IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR DK NO SE FI EE LV LT KG RU Sb Us Sh Ur MD UA Cm BY Cc GG CN JP 10 13 41 52 71 13A 13Ab 13Ax

New to the fauna of Bitlis Province!

163. *Hedya dimidioalba* (Retzius,1783)

Synonym(s): *dimidioalba* Retzius,1783; *variegana* Hübner,[1799] nec [Denis & Schiff.],1775; *nubiferana* Haworth,[1811] Original Reference: *Phalaena dimidio-alba* Retzius,1783, Gen. Sp. Ins. Geer: 53.
Range (in code): PT ES FR Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Sr Ur MD UA BY Cc GG IQ Shq IR Mz Gl CA 03 06 13 14 15 17 22 31 32 34 42 65 71 13A 13Ab 13Ax 31K 31Ka 31Ka3 65A 65An 65F 65Fb

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164. *Notocelia cynosbatella* (Linnaeus,1758)

Synonym(s): *cynosbatella* Linnaeus,1758; *cynosbana* Fabricius,1775; *tripunctana* [Denis & Schiffermüller],1775; *#cynobattella* Razowski,1966; *damascena* Tuleskov & Nikolova,1967. Original Reference: *Phalaena (Tortrix) cynosbatella* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 536. Range (in code): PT ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL GR BG TR DK NO SE FI EE LV LT RU Ur Sb Am Prj Us MD UA BY SY Hal Dms LB Bsa IR Kdv Elb KG 05 13 14 16 42 58 65 05A 13A 13Ab 13Ax 16A 65A 65Ai 65An

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165. *Paramesia gnomana* (Clerck,1759)

Synonym(s): *#gnomana* Clerck,1759; *costana* [Denis & Schiffermüller],1775; *livoniana* Sodoffsky,1829; *diffusana* Kennel,1899; *montedorea* Wehrli,1925; *schawerdae* Rebel,1926; *aetnana* Zerny,1943. Original Reference: [*Phalaena*] *gnomana* Clerck,1759, Icones Ins.: pl.4 fig.13. Range (in code): ES An Mlg FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU Cc GG MD UA BY SY Hal IR KG 13 14 45 65 13A 13Ab 13Ax 65A 65Ai 65F 65Fp 65Fz

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166. *Phtheochroa* sp.

This nocturnal species couldnot be identified for the time being.

Material studied: 1♂. East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1960m 10 6 2015, GP2186. M. Kemal & A.Koçak leg. (Cesa).

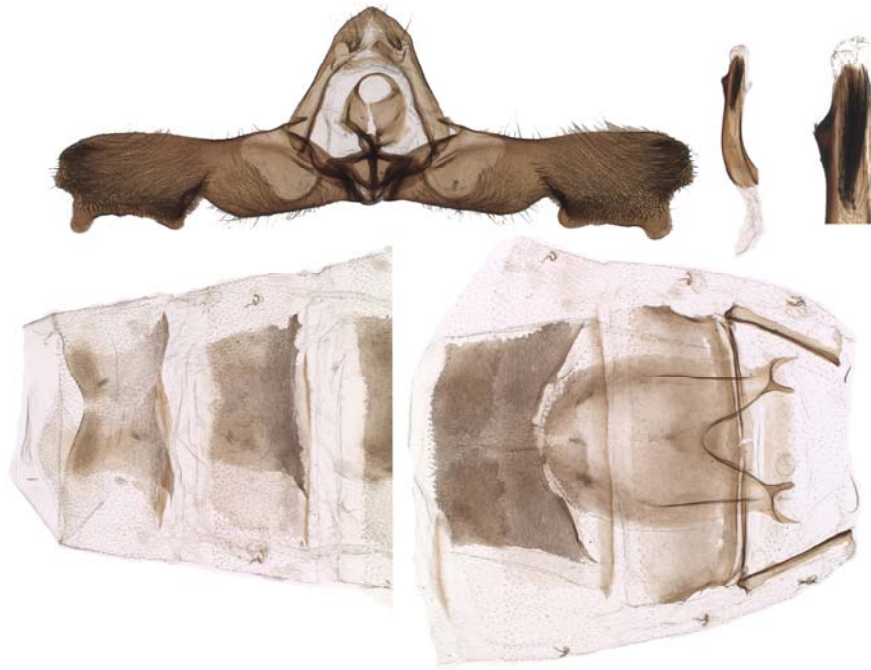
167. *Thiodia citrana* (Hübner,[1799]) (Figs. 70, 71)

Synonym(s): *citrana* Hübner,[1799]; *libanicolana* Obratzsov,1964 [ssp.] Original Reference: [*Tortrix*] *citrana* Hübner,[1799], Samml. eur. Schmett. Tortrices: pl.29 fig.185. Type: Europe.
Range (in code): ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR AM Eri SY Dms Hal DK NO SE FI EE LV LT RU Us MD UA BY LB Bsa Cc GG AZ IR Elb KG Uk TM Sb Sh CN JP 01 05 13 16 65 01K 05A 13A 13Ab 13Ax 16A 65D GP2306♂.

This record is new to the fauna of Bitlis Province.

168. *Tortrix viridana* (Linnaeus,1758)

Synonym(s): *viridana* Linnaeus,1758; *suttneriana* [Denis & Schiffermüller],1775; *flavipes* Fourcroy,1785; *flavana* Zincken,1821 nec Hübner,[1799]; *coeruleana* Sorhagen,1881. Original Reference: *Phalaena Tortrix viridana* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 530. Type(s): Europa. Range (in code): MA DZ Tou TN PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR AZ Kir Nv Ord AM Cc GG DK NO SE FI EE LV LT RU Da MD UA Cm BY IQ Hjo IR Fa Elb Kdv By Kz Lo Gl Kh SY Hal 03 05 06 10 12 13 16 17 34 39 42 45 50 56 65 71 75 76 06R 06Rb 12A 12Ab 12Ad 13A 13Ab 13Ac 13Ax 13C 13Cg 13G 13Gg 13Gs 13Gw 16A 56F 56Fb 56Fi 65A 65Am 65Am4 65An 65Ai 65D 65Di 65Dlc 65Dt 65Du 65F 65Fç 65Fz 65Fg 65Fr 65N 65Nc4 65Np2 65Nr2 65Nm 75F 75Fb 76C



Figs. 70, 71 – *Thiodia citrana*. Male genitalia with enlarged apex of aedeagus (above), and abdominal skin (below). GP2306. Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa).

Yponomeutidae

169. *Yponomeuta malinella* (Zeller, 1838)

Synonym(s): *malinellus* Zeller, 1838 Original Reference: *Hyponomeuta malinellus* Zeller, 1838, Isis Leipzig 1838: 670. Type: Germany, Glogau. Range (in code): DZ ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc AM DK NO SE FI EE LV LT RU MD UA BY CN Mc KP KR JP US 05 06 13 45 56 65 05A 06R 06Rb 13A 13Ab 13Ax 56F 56F1 65A 65Ac 65Ac3 65An 65Ai 65D 65Df 65Dlc 65Fz 65N 65Np 65Nm

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Material studied: East Turkey, Bitlis Province, Adilcevaz, Süphan Volcano, Aygır 1990m, 15 7 2015, 7♂♀, M. Kemal & A. Koçak leg.

170. *Ypsolopha excisella* (Lederer, 1855)

Synonym(s): *excisella* Lederer, 1855 Original Reference: *Plutella excisella* Lederer, 1855, Verh. zool.-bot. Ver. Wien 5: 119-120, pl. 2 fig. 7. Type ♂: Russia, Altai. Range (in code): ES TR MN IR Mz Kh RU At 06 13 65 06R 13A 13Ae 13Ax 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz

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171. *Ypsolopha nervosella* (Zerny, 1940)

Synonym(s): *nervosella* Zerny, 1940 Original Reference: *Cerostoma nervosellum* Zerny, 1940, Z. Wien. entVer. 25: 43-44. Type ♀: Iran, Pers. Elbursgeb. Tarseegebiet 2200m leg. Schwingenschuss (NHMW). Range (in code): TR IR Elb Mz 06 13 06A 06Aa 13A 13Ae 13Ax

New to the fauna of Bitlis Province!

Zygaenidae

172. *Jordanita* (s.str.) *graeca* (Jordan, 1907) (Fig. 72)

Synonym(s): *graeca* Jordan, 1907 Original Reference: *Procris graeca* Jordan, 1907, [in] Seitz, A., Gross-Schmett. Erde 2: 9, pl. ii. Type: Griechenland, Taygetos (M. Holtz leg.). Range (in code): SK HU RO YU HV AL BG GR Tyg TR RU MD UA Cm AM Cc GG AZ CY IQ IR Elb Th Kdj 06 13 24 30 33 42 47 49 50 56 62 65 06R 06Rb 13A 13Ab 13Ax 42B 42Ba 56F 56Fc 65N 65Nc GP2255♂

Material studied: 1♂. East Turkey, Bitlis Adilcevaz, Süphan Volcano, Aygır (13Ab) 1950m, 10 6 2015, GP2255♂, M. Kemal & A. Koçak leg. (Cesa).

This record is new to the fauna of Bitlis Province.



Fig. 72 - *Jordanita* (s.str.) *graeca*, male genitalia, GP2255. Bitlis Province, Adilcevaz, Süphan Volcano. M. Kemal (Cesa)

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